DRAFT DATE: 12 MAR 2004

NAD

SERVICE MANUAL

T 743

A/V Receiver

T 743

A/V Receiver

SAFETY INFORMATION

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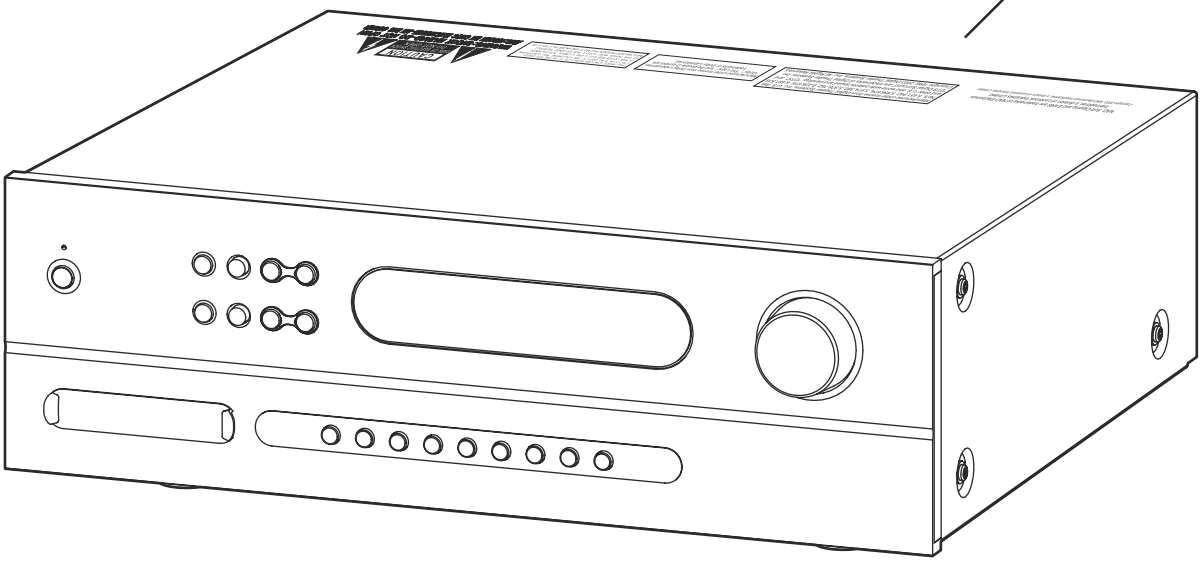
THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, (2) THIS DEVICE MUST ACCEPT INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: SHOCK HAZARD - DO NOT OPEN
AVIS: RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR



SERVICE SAFETY PRECAUTIONS

1. Replacing the fuses

CAUTION:
FOR CONTINUED PROTECTION AGAINST THE RISK OF FIRE REPLACE ONLY WITH SAME TYPE OF FUSE.

Reference Designator	Part Number	Description
F751*AH ⚠	33-0101001-00-48	FUSE 7A 250V TIME-LAG5 X 20mm SIC UL/CSA
F751*C ⚠	33-0141002-00-48	FUSE 4A 250V TIME-LAG 5 X 20mm VDE/UL TSD
F752*AH ⚠	33-0111006-00-48	FUSE 1.6A 250V TIME LAG LBC 5x20mm TSD UL/CSA/VDE/SEMKO
F752*C ⚠	33-0151006-00-48	FUSE 800mA 250V TIME LAG LBC 5x20mm TSD UL/CSA/VDE/SEMKO
FH751-FH752 ⚠	33-1000000-00-88	FUSE CLIP 0.05mm FC-53-11

NOTE: <*AH > : USA, CANADIAN MODEL ONLY.
<*C > : EUROPEAN MODEL ONLY.

2. Safety check out

(Only U.S.A. model)

Before returning the product to the customer, make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from supply circuit.

Parts marked with the symbol ⚠ are critical with regard to the risk of fire and electric shock.
Replace only with parts recommended by the manufacturer.

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SPECIFICATIONS

POWER AMPLIFIER SECTION

Rated distortion	(Rated power level into 8 ohms, THD 20 Hz-20 kHz FL/C/FR)	≤ **0.1 %**
	(Rated power level into 8 ohms, THD 20 Hz-20 kHz SL/SR/BS)	≤ **0.1 %**
Power output Surround Mode	5 x 50W (16.98 dBW)	
Input Sensitivity	(ref. 8 ohms, 1 kHz)	**150 ± 20 mV**
S/N Ratio	(A-wtd, 1kHz, 1 W, 8 ohm, SL/SR/BL)	**≥ - 72 dB**
Frequency Response	(20 Hz - 20 kHz)	**0 ± 1.0 dB**
Channel Balance	(1 dB to -40 dB, 1 kHz)	≤ **2 dB**
	(-41 dB to -50 dB, 1 kHz)	≤ **3 dB**
Audio muting at 1 kHz		**≥ 55 dB**
Subwoofer out, 500 mV in	(THD at 2 V O/P, 100 Hz)	≤ **0.5 %**
Crosstalk	(500 mV input, 10 W, 1 kHz)	**≥ -57 dB**

Controls

Bass	(at 500 mV in, 1 W out, 100 Hz)	**± 10 dB ± 2 dB**
Treble	(at 500 mV in, 1 W out, 10 kHz)	**± 10 dB ± 2 dB**

DOLBY DIGITAL SECTION

Channel Difference(FL ref. Track 30)			**± 1.2 dB**
Frequency Resporse at Dolby config.2		SL Track 46 200 - 20 kHz	**± 0.8 dB**
		SR Track 47 200 - 20 kHz	**± 0.8 dB**
		C Track 44 200 - 20 kHz	**± 0.8 dB**
Harmonic Distortion	(1 W, Audio LPF, Dolby Congfig 1)	FL Track 65 997 Hz	≤ **0.08 %**
		FR Track 67 997 Hz	≤ **0.08 %**
		SL Track 68 997 Hz	≤ **0.08 %**
		SR Track 69 997 Hz	≤ **0.08 %**
		C Track 66 997 Hz	≤ **0.08 %**
S/N Ratio	(TRACK 30 for O/P 1 W, FAUSE)	CCIR / ARM	**≥ 65 dB**
		Audio LPF	**≥ 70 dB**
		A-WTD	**≥ 70 dB**
Channel Separation	(1 W, A-WTD FILTER)	Track 65 997 Hz	**≥ 60 dB**

DOLBY PRO LOGIC II SECTION

Frequency Resporse

I/P mode : L, R	: 1 V in, 1 W, Ch L/R	40 Hz	**0 ± 2.0 dB**
		20 kHz	**0 ± 2.0 dB**
I/P mode : L=R	: 1 V in, 1 W, Ch /L/R	40 Hz	**0 ± 2.0 dB**
	Ch C	20 kHz	**0 ± 2.0 dB**
I/P mode : L=-R	: 1 V in, 1 W, Ch SL/SR	40 Hz	**0 ± 2.0 dB**
		20 kHz	**0 ± 2.0 dB**
S/N Ratio (200 mV in, 1 W, A-WTD w/ 1 k termination)			
I/P mode : L, R	: 1 kHz, Ch L/R		**≥ 65 dB**
I/P mode : L=R	: 1 kHz, Ch C		**≥ 65 dB**
I/P mode : L=-R	: 1 kHz, Ch SL/SR		**≥ 65 dB**
THD (2.2 V in, 1 W, w/ 80 kHz LPF, 1 kHz)			≤ **0.2 %**

DTS SECTION

Output Level (Vol 0 dB)	: FL/FR/C/SL/SR	Track 6 1 kHz	**0.9 ± 1.3 W**
Channel Difference (FL ref)	: FL/FR/C/SL/SR	Track 6 1 kHz	**± 1.0 dB**
Harmonic Distortion (Audio Filter)	: FL/FR/C/SL/SR	Track 10-14 1 kHz	**≤ 0.08 %**
Frequency Response (20 Hz to 20 kHz)		Track 26-30	**+2/-1.5**
Subwoofer Output Level	1 kHz ref at pre-out (FL)	Play Track 10, charge to 15	**12.5 ± 2 dB**

AM TUNER SECTION

Input level is expressed as the reading in open circuit of 75-ohm source impedance signal generator

Usable sensitivity	(999/1000 kHz)	**≤ 30 dBuV**
S/N Ratio	(5 mV in)	**≥ 38 dB**
THD	(5 mV in)	**≤ 3 %**
IF Rejection	(450 kHz)	**≥ 36 dB**
Image Rejection	(F+2xIF)	**≥ 28 dB**
Selectivity		**≥ 17 dB**
Output		**170 ± 20 mV**
Loop sensitivity	(20 dB S/N)	
	999/1000 kHz	**≤ 66 dB**
	603/600 kHz	**≤ 66 dB**
	1404/1400 kHz	**≤ 66 dB**
Frequency Response	(100 - 2.3 kHz, 5 mV)	**± 6 dB**

FM TUNER SECTION

Input level is expressed as the reading in open circuit of 75-ohm source impedance signal generator

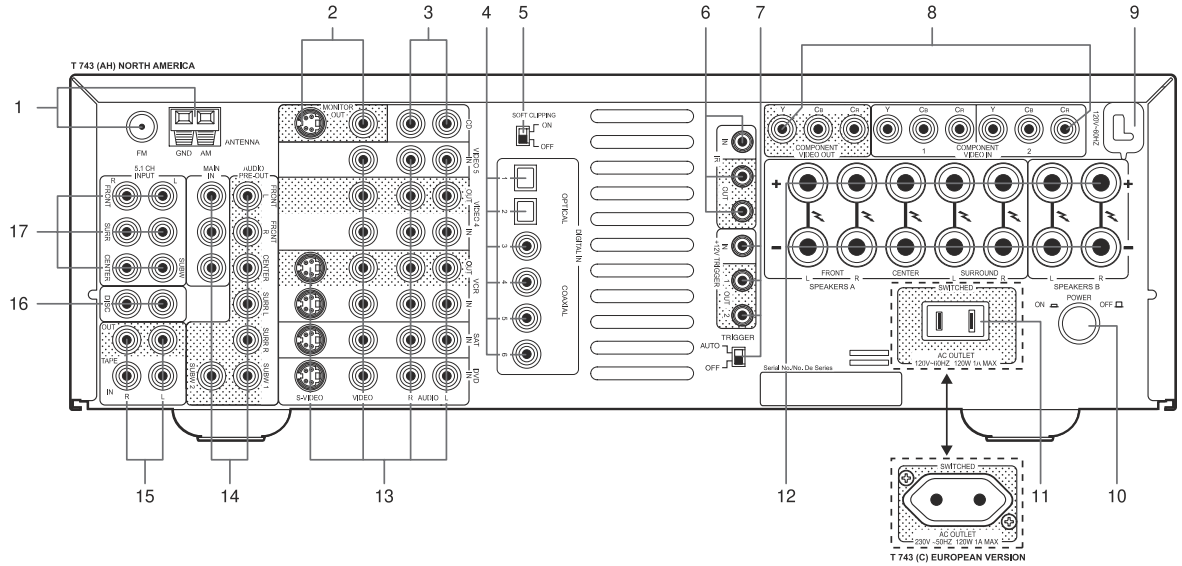
			*C	*AH
Usable sensitivity	(98 MHz)		**≤ 15 dBµV**	**≤ 15 dBuv**
S/N Ratio	(60 dB, IHF wtd)	Mono	**≥ 63 dB**	**≥ 63 dB**
		Stereo	**≥ 63 dB**	**≥ 63 dB**
Frequency Response	(20 Hz - 15 kHz, 60 dBµ)		**0 ± 1.5 dB**	**0 ± 1.5 dB**
Channel Separation	(60 dBµ)	100 Hz	**≥ 30 dB**	**≥ 30 dB**
		1 k	**≥ 38 dB**	**≥ 38 dB**
		10 kHz	**≥ 30 dB**	**≥ 30 dB**
Alternate Channel Selectivity (40 dBµ, ± 400 kHz)			**≥ 60 dB**	**≥ 45 dB**
Capture Ratio	(40 dBµ)		**≤ 3 dB**	**≤ 3 dB**
AM Suppression (60 dBµ, 100% Mod. FM, 30% Mod. AM)			**≥ 48 dB**	**≥ 48 dB**
Image Rejection	(119.4 MHz)		**–**	**≥ 65 dB**
I.F. Rejection	(10.7 MHz)		**≥ 78 dB**	**–**
Pilot Suppression	(98 MHz)		**≥ 60 dB**	**≥ 60 dB**
THD (60 dBµ, L=R 75 kHz for AH, 40 kHz Dev for C)		Mono	**≤ 0.25 %**	**≤ 0.25 %**
		Stereo	**≤ 0.35 %**	**≤ 0.35 %**
Auto-Search Sensitivity		On	**≥ 24 dBµ**	**≥ 24 dBµ**
		Off	**≤ 15 dBµ**	**≤ 15 dBµ**
RDS decode Sensitivity			**≤ 26 dBµ**	**–**

PHYSICAL SPECIFICATIONS

Dimensions (Width x Height x Depth)	**435 x 167 x 382 mm**
Net Weight	**18.50 Kg (40.70 lbs)**
Shipping Weight	**22.20 Kg (48.84 lbs)**

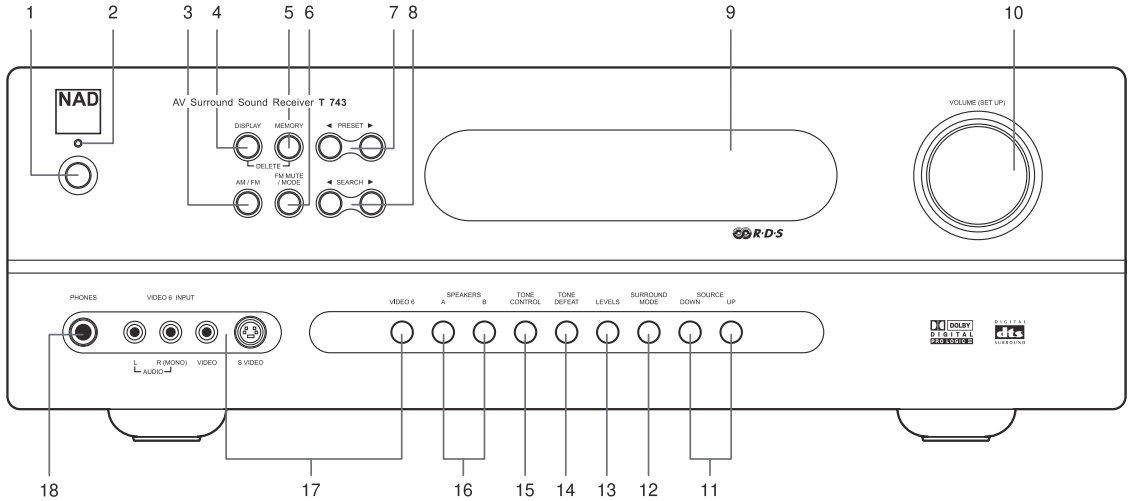
REAR PANEL / FRONT PANEL VIEW

REAR PANEL



1. FM & AM ANTENNA
2. MONITOR OUT
3. CD INPUT
4. DIGITAL AUDIO INPUT & DIGITAL AUDIO OUTPUT
5. SOFT CLIPPING ON/OFF
6. IR INPUT & OUTPUT
7. +12V TRIGGER INPUT & OUTPUT
8. COMPONENT VIDEO IN & COMPONENT VIDEO OUT
9. AC POWER CORD
10. POWER SWITCH
11. SWITCHED AC OUTLETS
12. SPEAKERS A & B
13. DVD, SAT, VCR, VIDEO 4 & VIDEO 5
14. MAIN IN / AUDIO PRE-OUTS / SUBWOOFER OUT
15. TAPE INPUT & OUTPUT
16. DISC INPUT
17. 5.1 CH. INPUTS

FRONT PANEL



1. STANDBY SWITCH
2. STANDBY LED
3. AM / FM
4. DISPLAY
5. MEMORY
6. FM MUTE / MODE
7. PRESET DOWN / UP
8. SEARCH DOWN / UP
9. VFL DISPLAY
10. VOLUME (SETUP)
11. SOURCE DOWN / UP
12. SURROUND MODE
13. LEVELS
14. TONE DEFEAT
15. TONE CONTROLS
16. SPEAKERS A & B
17. VIDEO 6 INPUT
18. PHONES

DISASSEMBLY INSTRUCTIONS

1. Remove machine screws M4.0 x 8.0 (**1** to **6**) from the side panels.
Remove tapping screw 3.0 x 8.0 (**7** to **10**) from the back panel.
Refer to **Figure No. 1**.

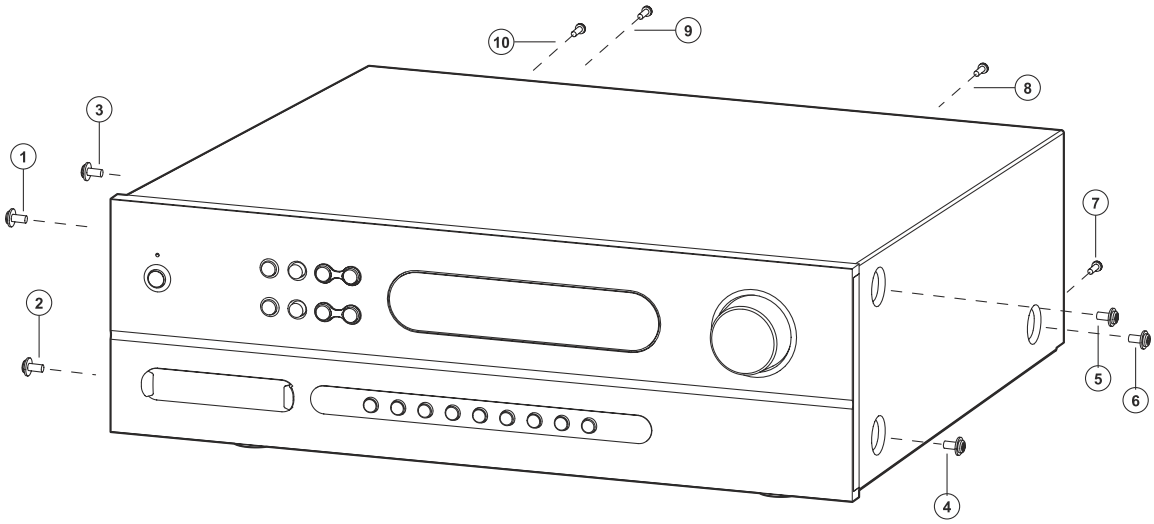


Figure No. 1

2. Pull both sides of the TOP COVER slightly outwards **11** and tilt approx. 35 ° and then remove in the direction as indicated by the arrow **12**. Refer to **Figure No. 2**.

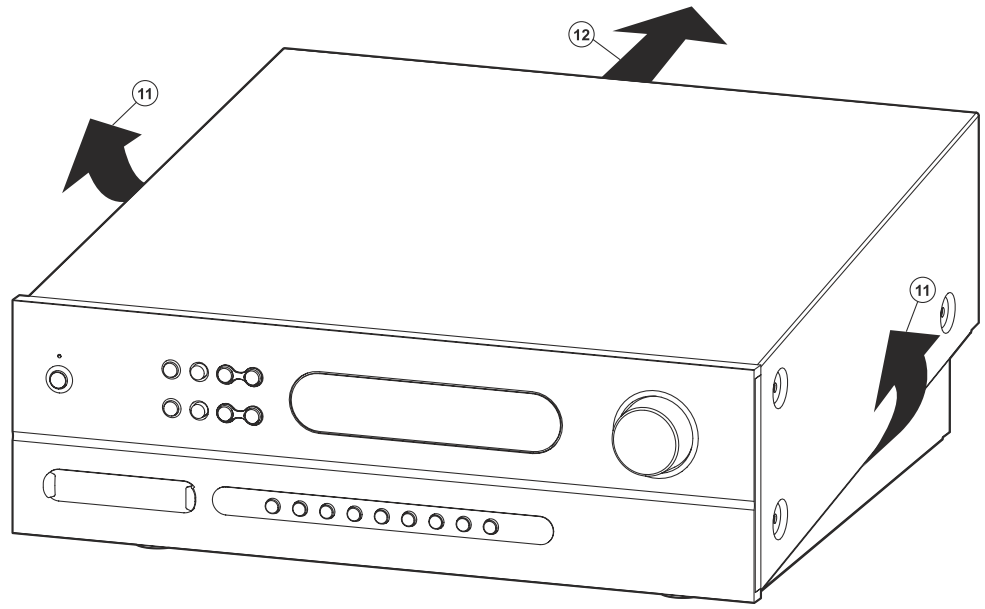
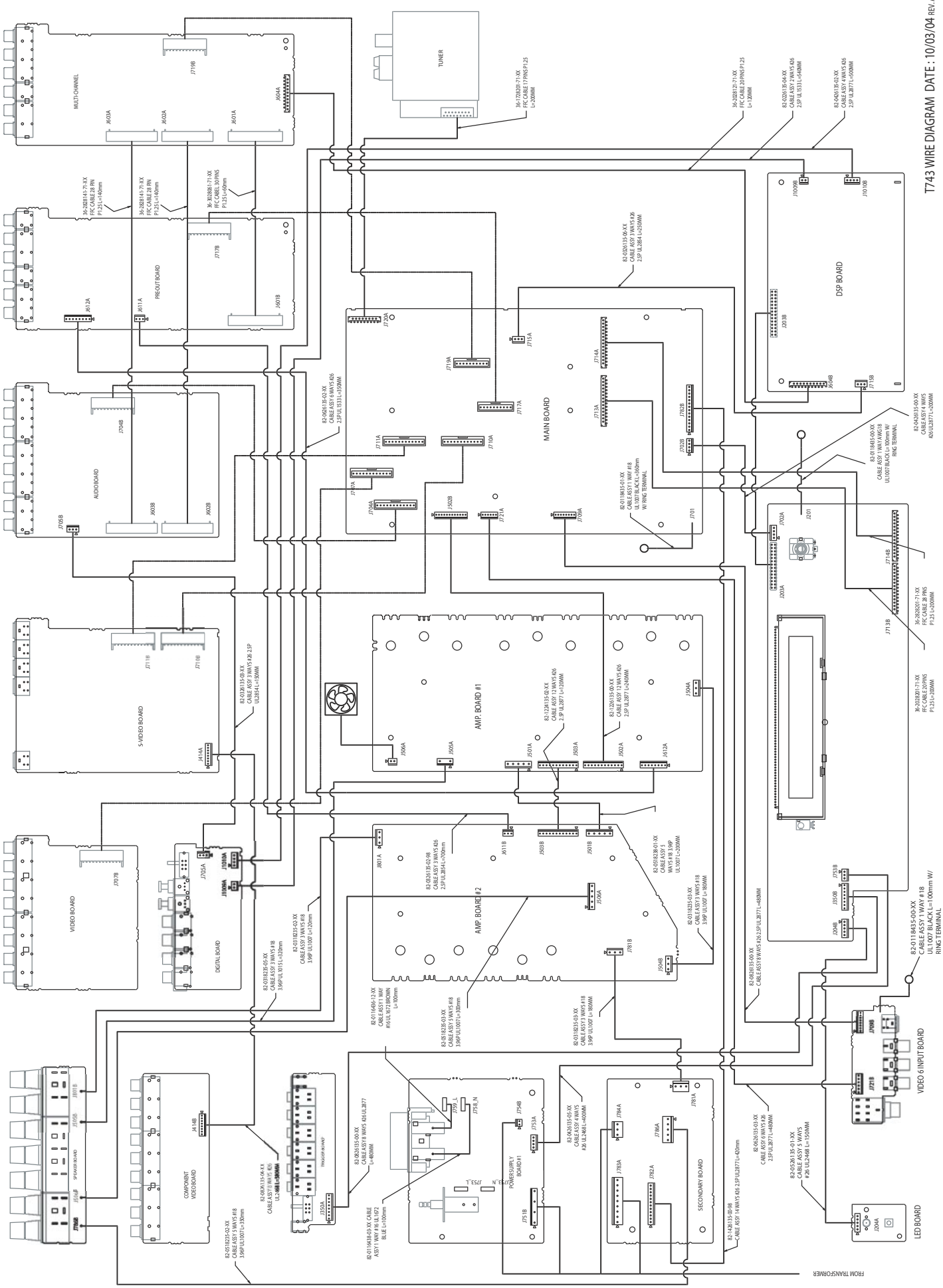
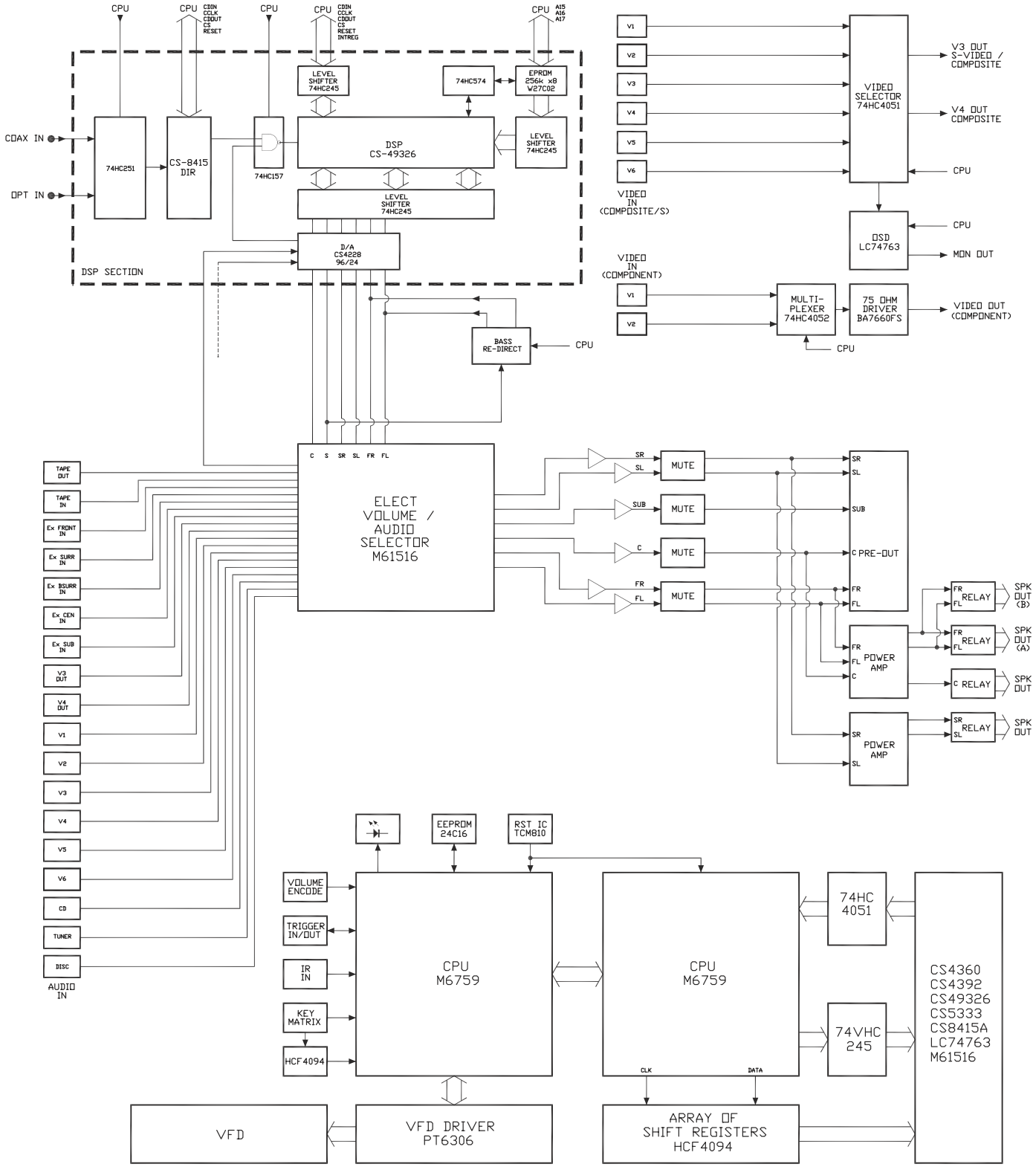


Figure No. 2

WIRING DIAGRAM



BLOCK DIAGRAM



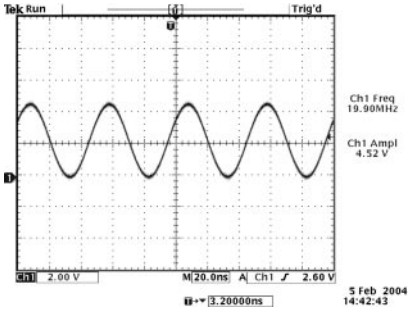
T743 Block Diagram
Issue : 01

SPECIAL FUNCTION

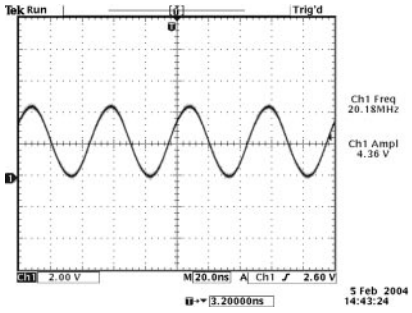
FEATURE	KEYS PRESS ON FRONT PANEL
RESET FOR AH VERSION	VIDEO 6 + SOURCE UP
RESET FOR C VERSION	VIDEO 6 + SOURCE DOWN
NTSC / PAL SELECTION	VIDEO + MEMORY
VFD ALL DISPLAY	AUDIO 6 + TONE DEFEAT
AM FREQ. STEP	AM/FM + FM MUTE

DETAILS & WAVEFORMS ON SYSTEM TEST & DEBUGGING

T89C51RD2 (U202) main clock is at 20MHz (X202)

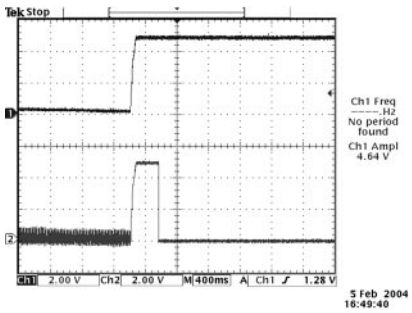


T89C51RD2 (U201) main clock is at 20MHz (X201)



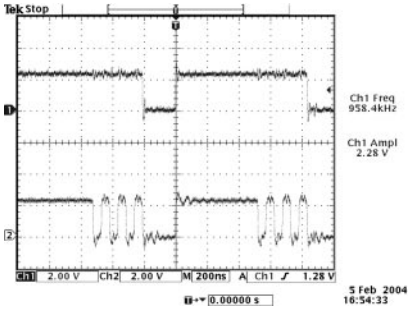
UPPER - +5V supply to KEYBOARD when power up

LOWER - RESET line (TCM810LENB713) when power up

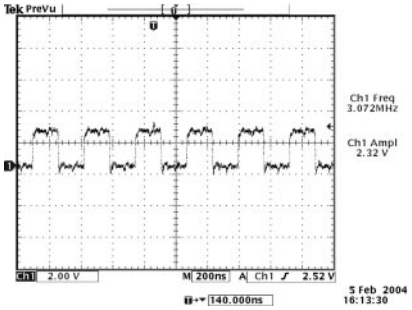


UPPER - OUTPUT ENABLE (pin 24) of EPROM (W27C02) when changing SURROUND MODES

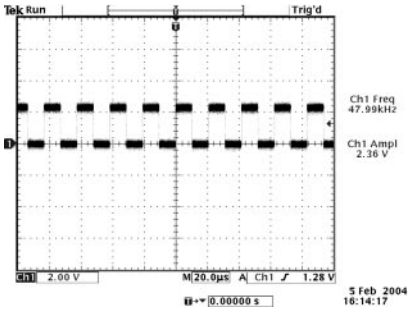
LOWER - CHIP ENABLE (pin 22) of EPROM (W27C02) when changing SURROUND MODES



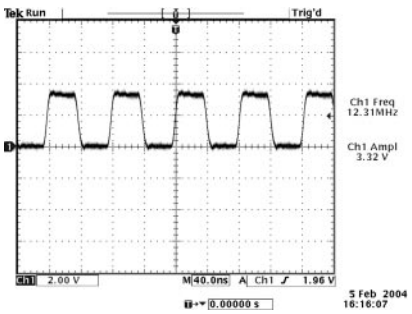
SCLK (pin 43 of CS49326)



LRCLK (pin 42 of CS49326)



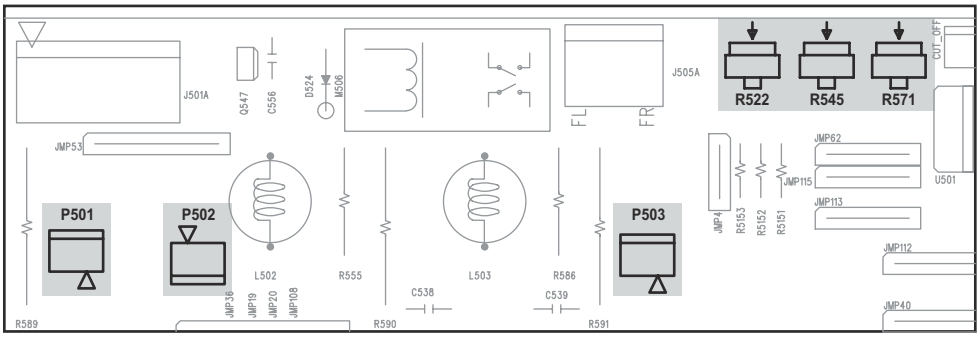
MCLK (pin 30 of CS49326)



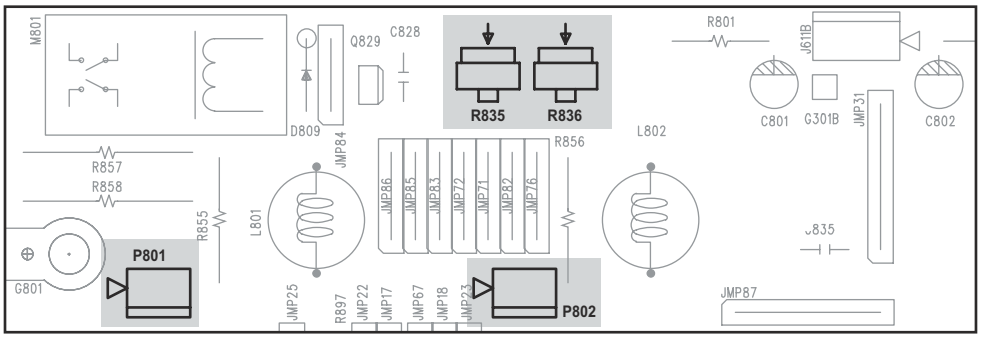
NOTE: The waveforms are based on software version V1.27.

ADJUSTMENT POINT DIAGRAM

FRONT/CENTER AMPLIFIER BOARD



SURROUND AMPLIFIER BOARD



AMPLIFIER ADJUSTMENT

Idle Current

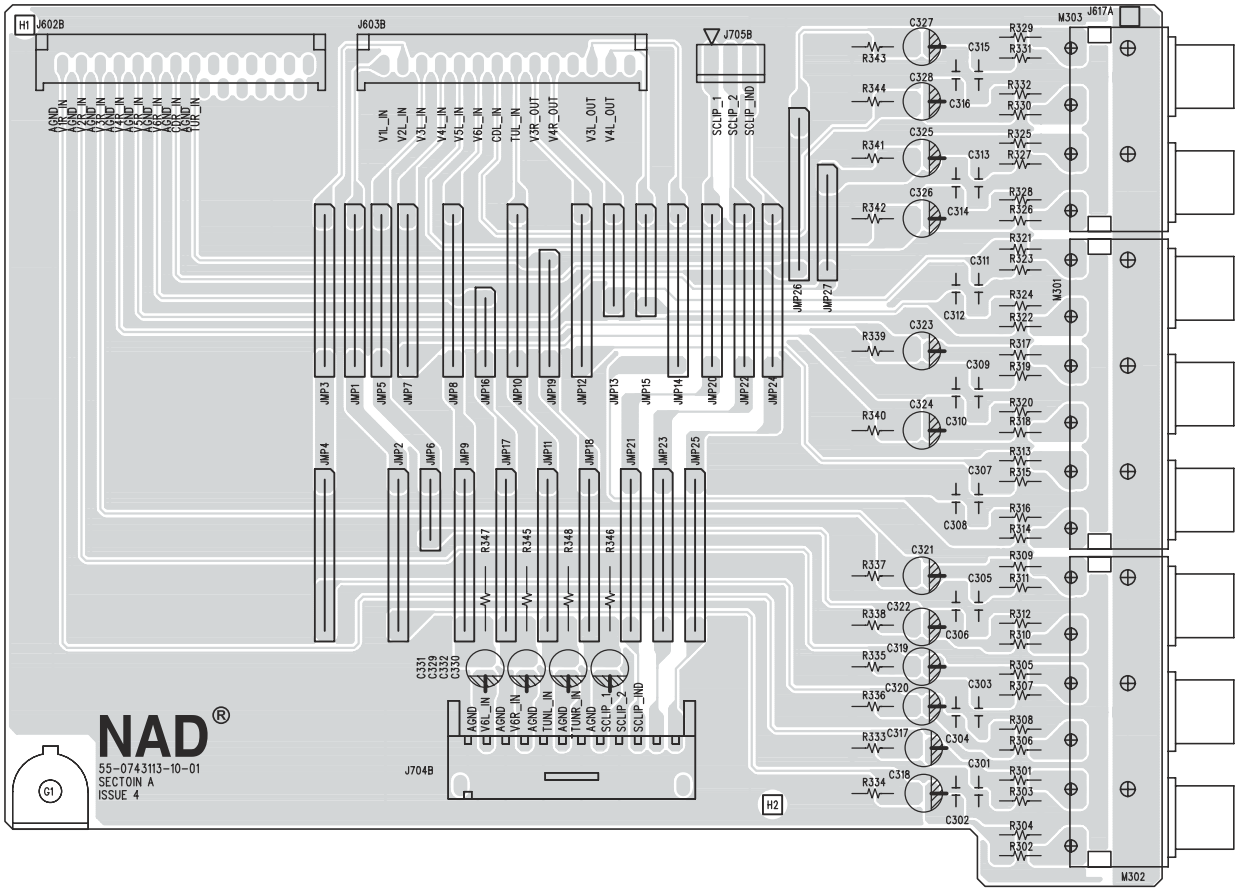
1. Rotate R522 fully clockwise.
2. Connect DC millivoltmeter to P501 (i.e. Across half of R523, 0.22 Ohm resistor).
3. Turn on the unit.
4. Adjust R522 for 1mV reading on voltmeter.
5. Leave power on for at least 5 min, and check for idle current again.
6. Repeat for other channels.

CHANNEL	JUMPER	VR
FL	P501	R522
FR	P502	R545
C	P503	R571
SL	P801	R835
SR	P802	R836

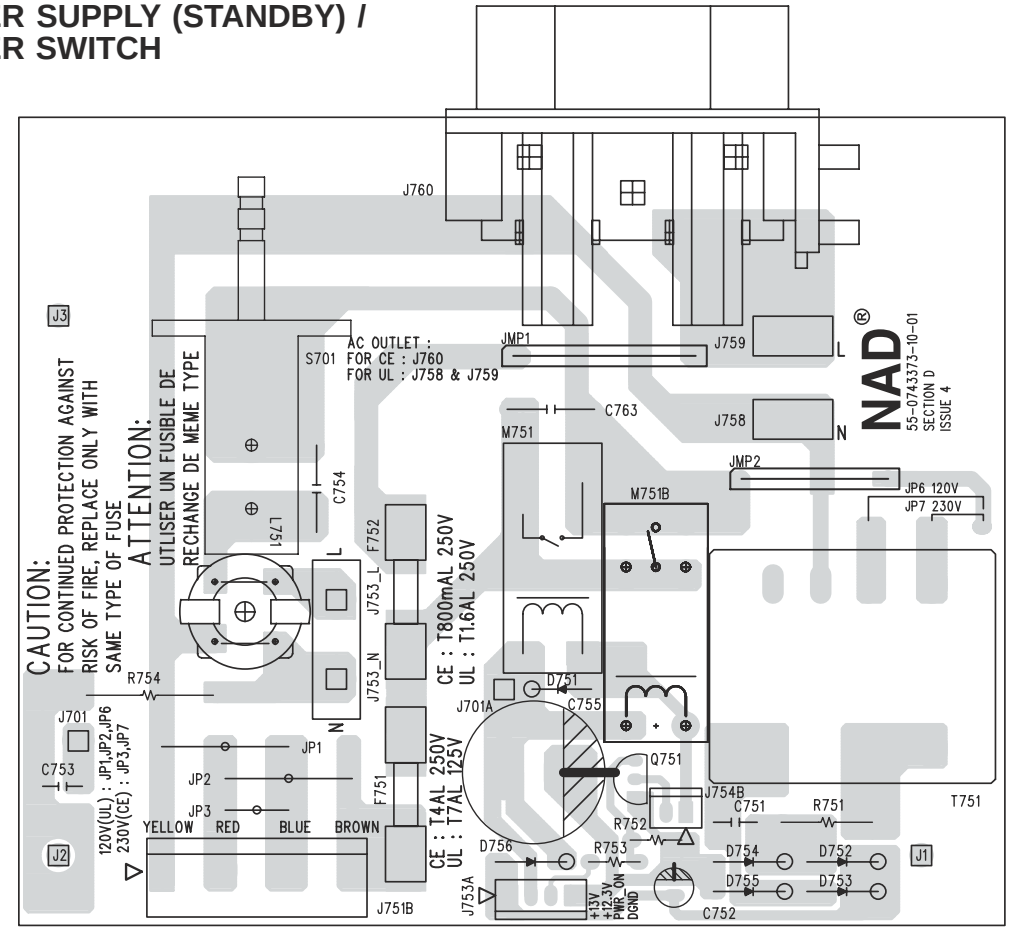
ISC Sensitivity

1. Connect 8 ohm loading to all channels.
2. Rotate R881 fully clockwise.
3. Load all channels at full power using 1kHz sine wave.
4. At this time, monitor the THD of the SL,SR output. Clipping should occur before full power achieved.
5. The procedure is finish at this step.
6. Load all channels at full power using 1kHz sine wave with 4 ohm load.
7. The clipping power(at THD 0.1%) should less than 85W.

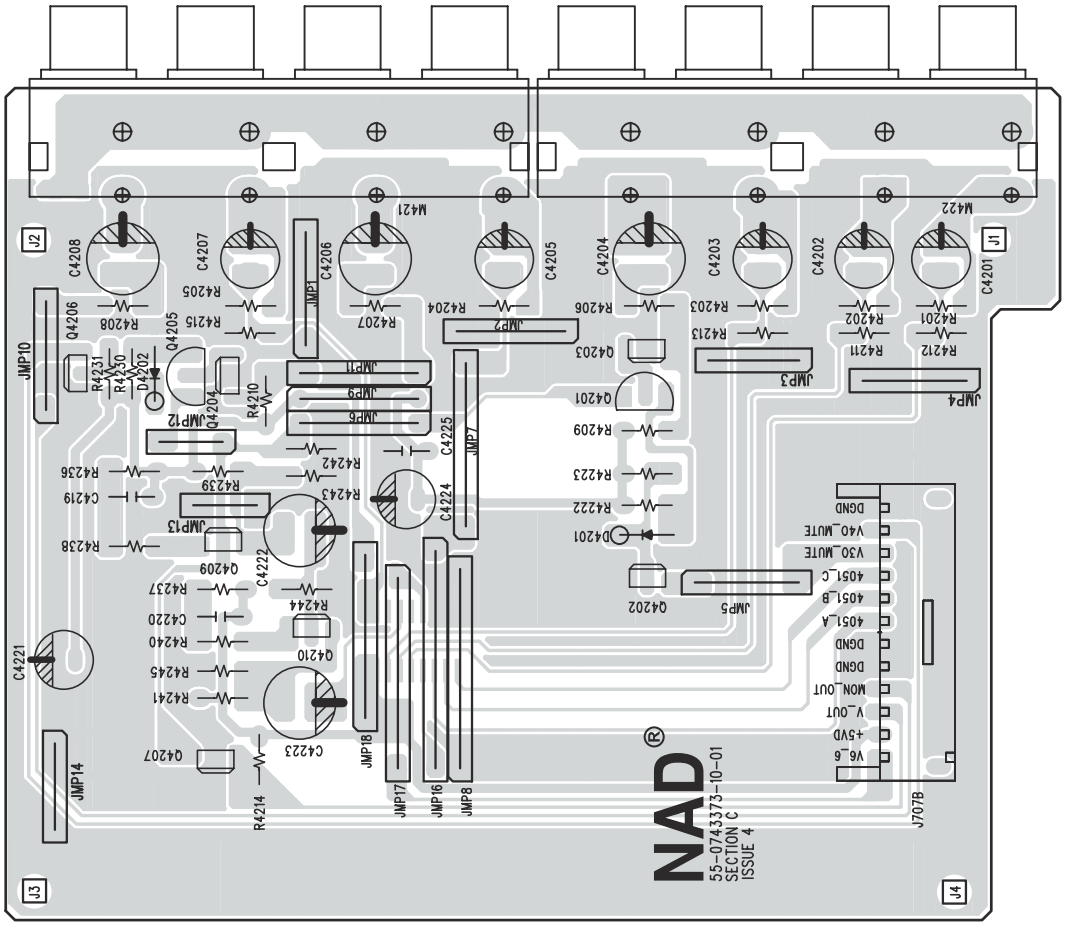
PCB LAYOUT
AUDIO BOARD



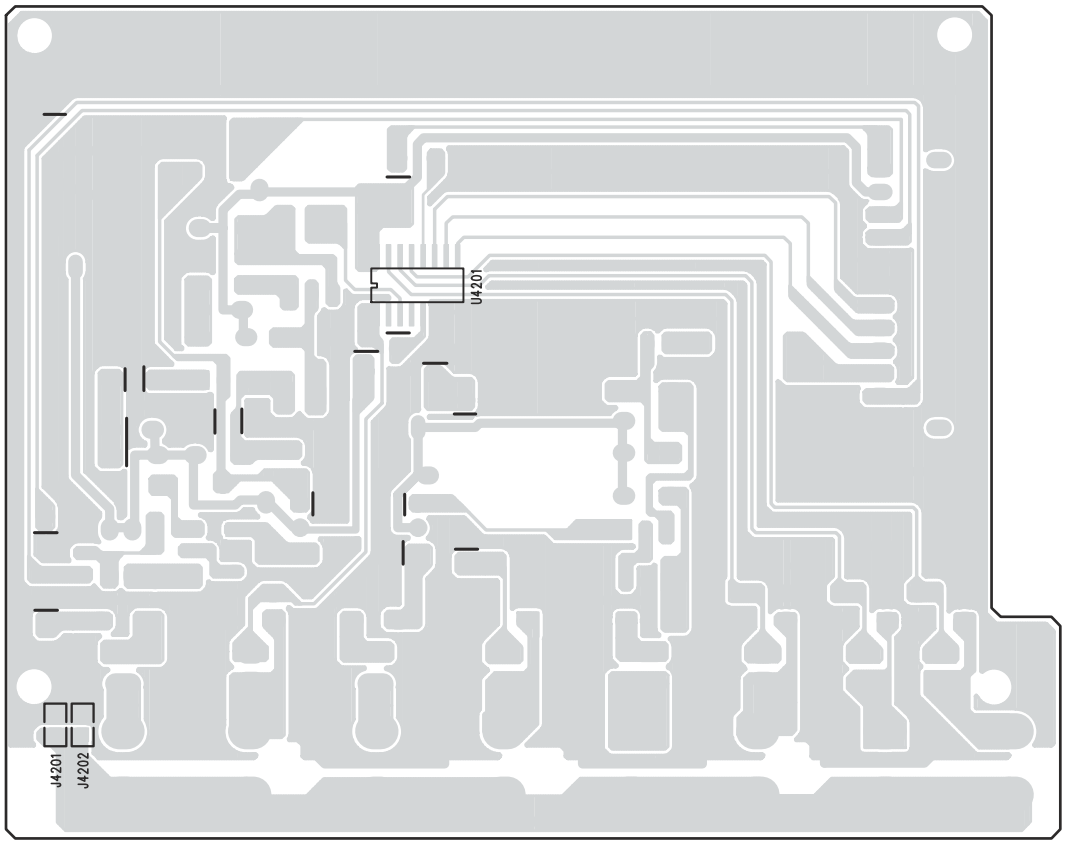
POWER SUPPLY (STANDBY) / POWER SWITCH



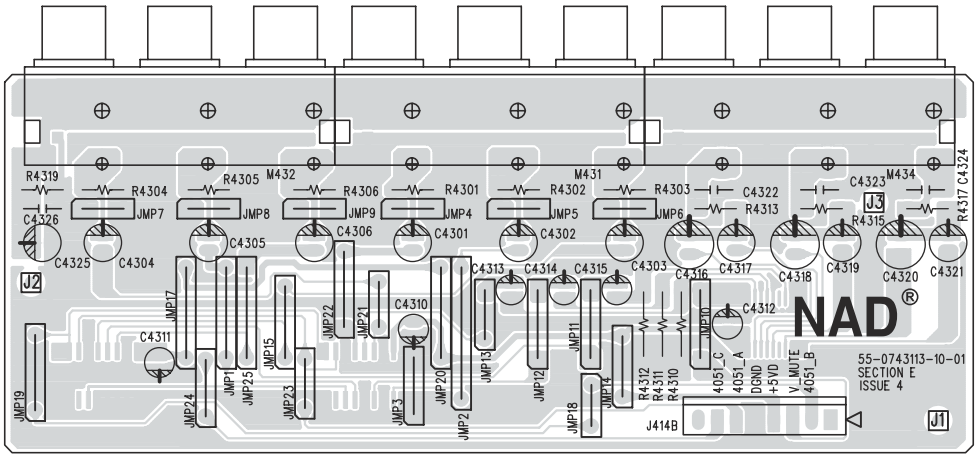
COMPOSITE VIDEO BOARD - COMPONENT SIDE



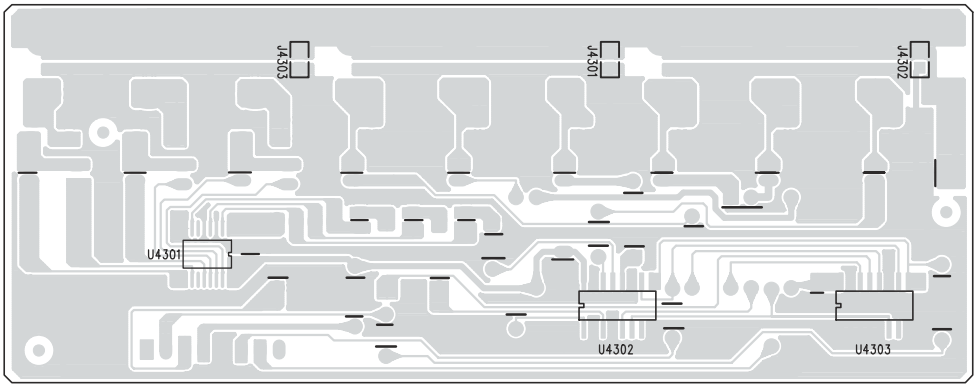
COMPOSITE VIDEO BOARD - COPPER SIDE



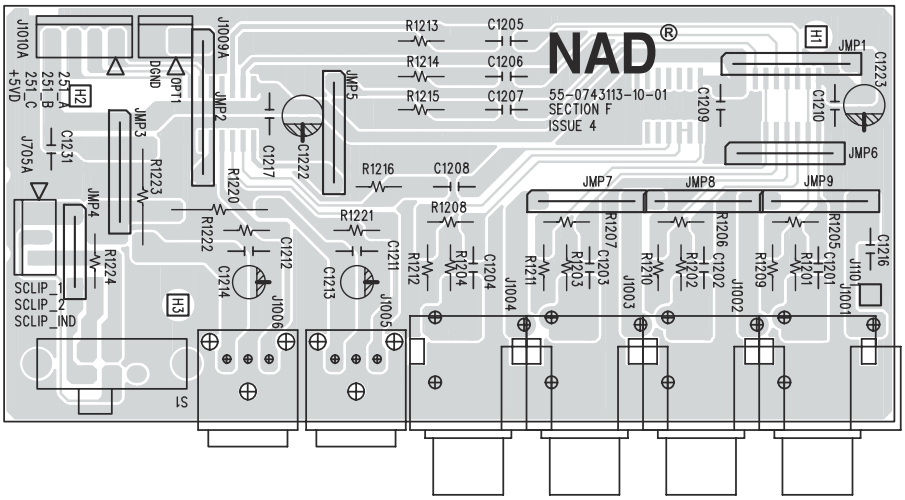
COMPONENT VIDEO BOARD - COMPONENT SIDE



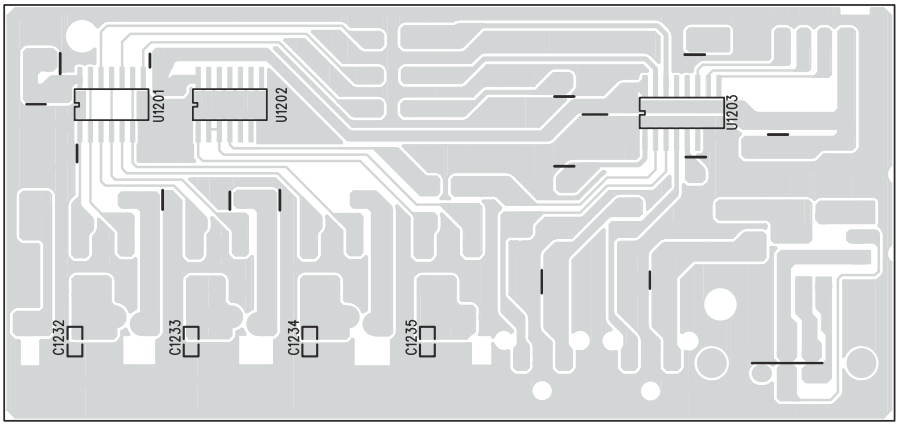
COMPONENT VIDEO BOARD - COPPER SIDE



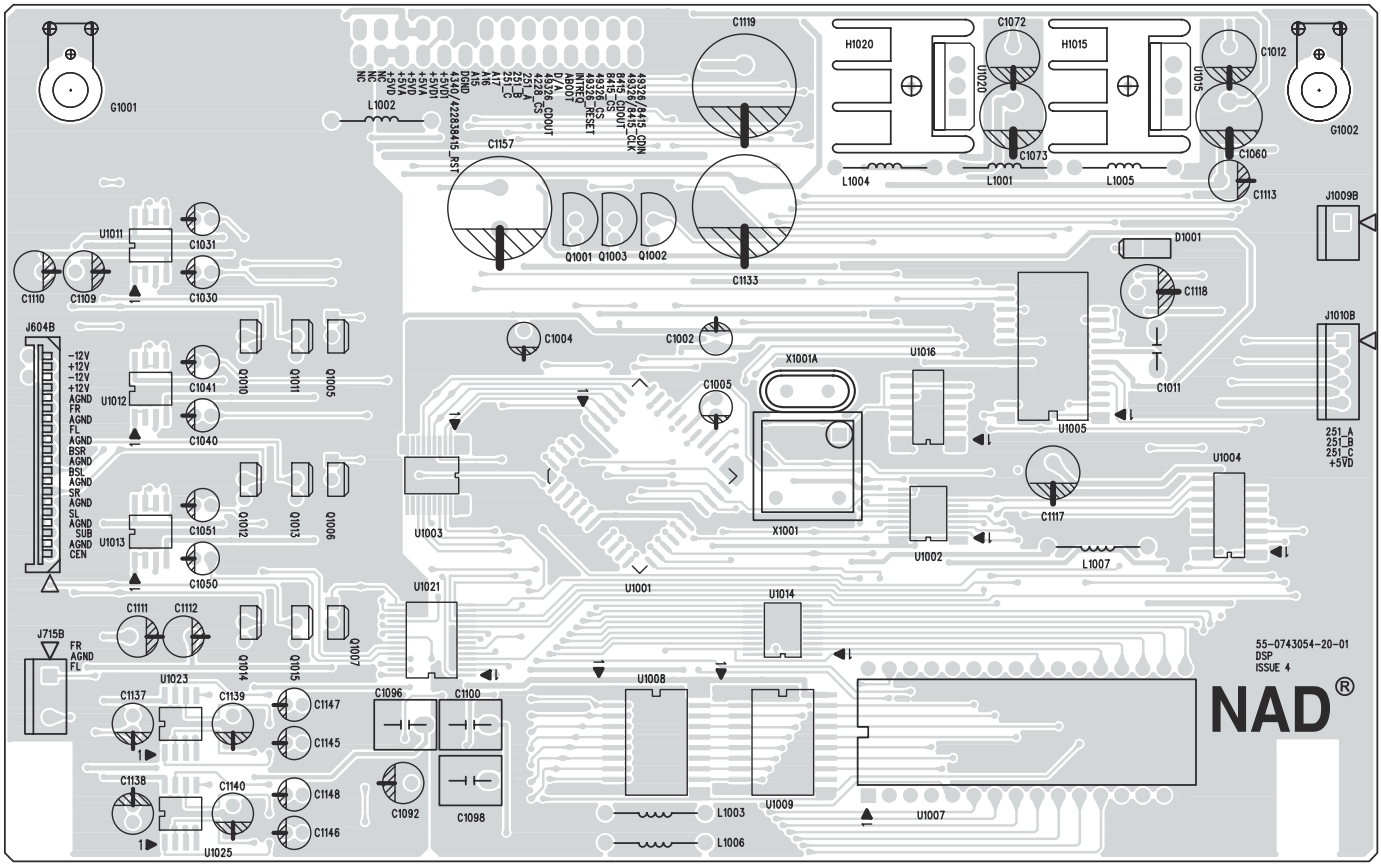
DIGITAL BOARD - COMPONENT SIDE



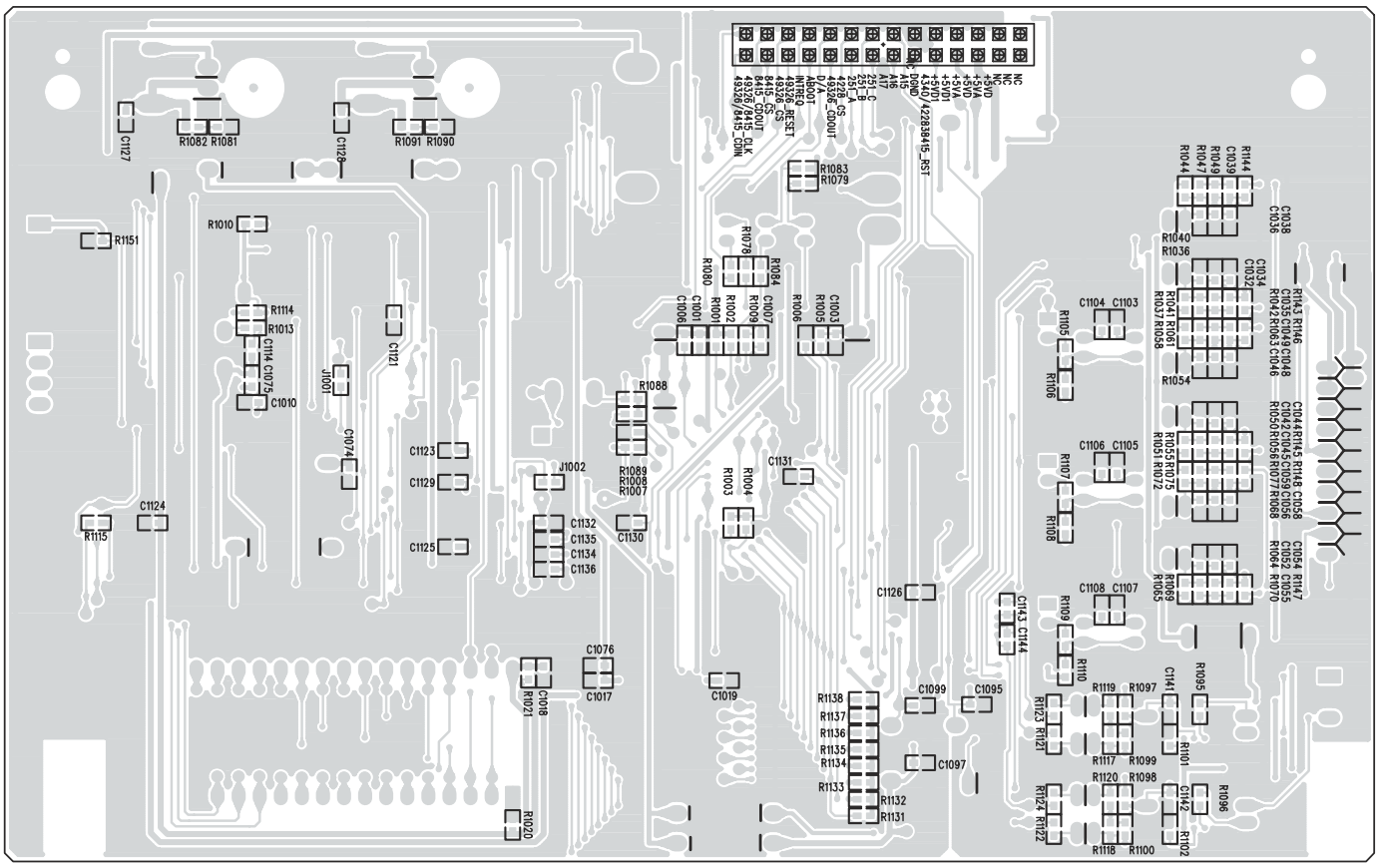
DIGITAL BOARD - COPPER SIDE



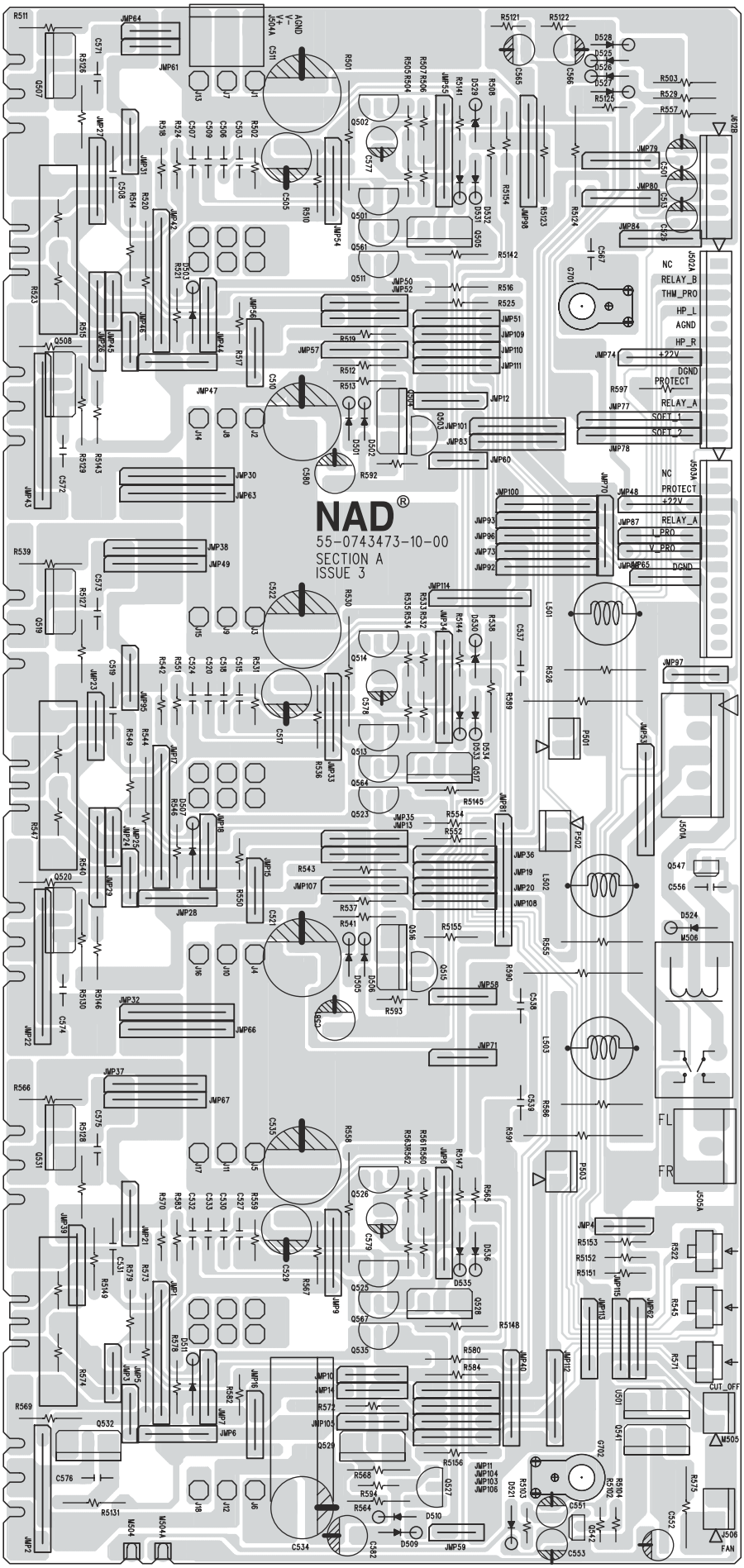
DSP BOARD - COMPONENT SIDE



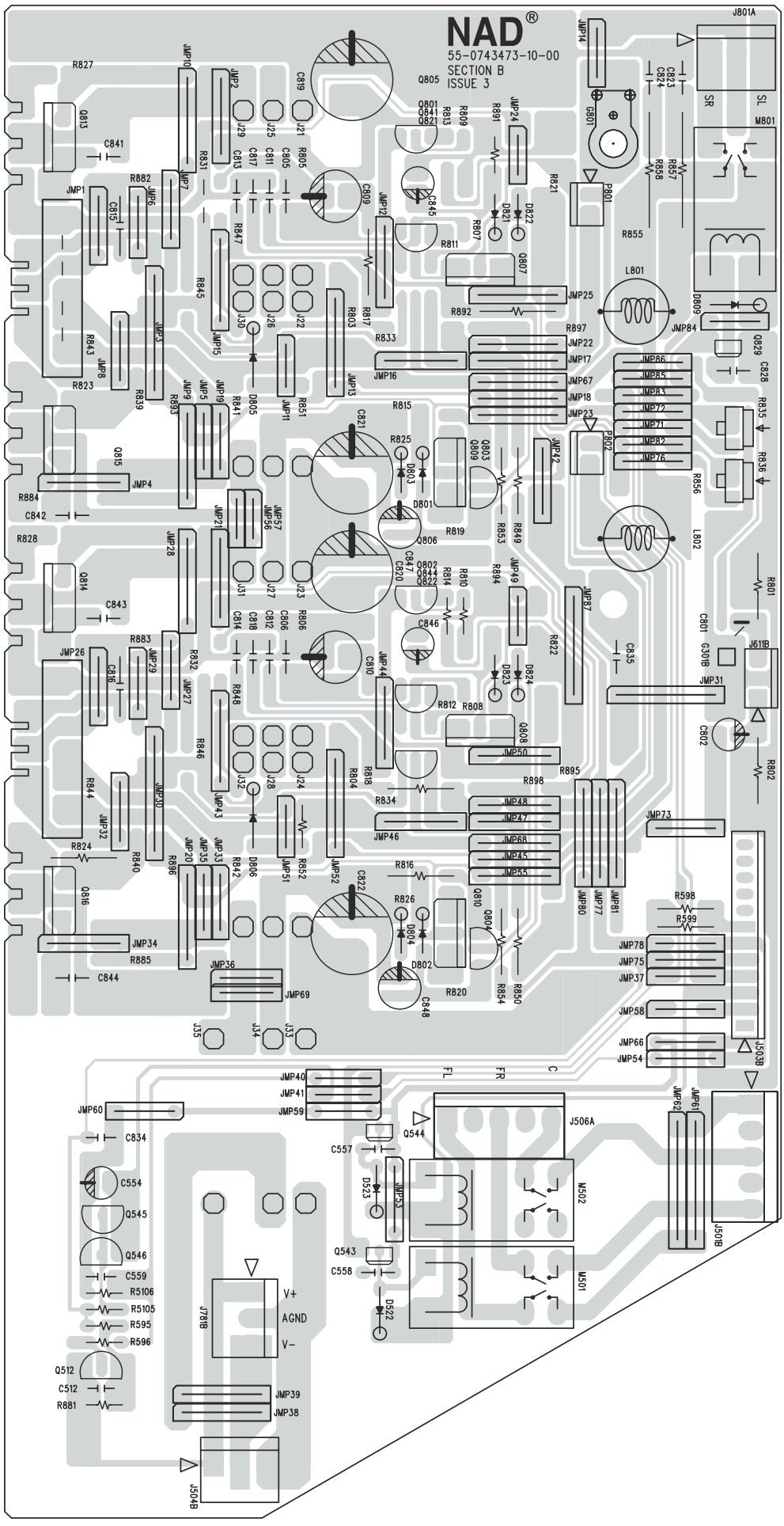
DSP BOARD - COPPER SIDE



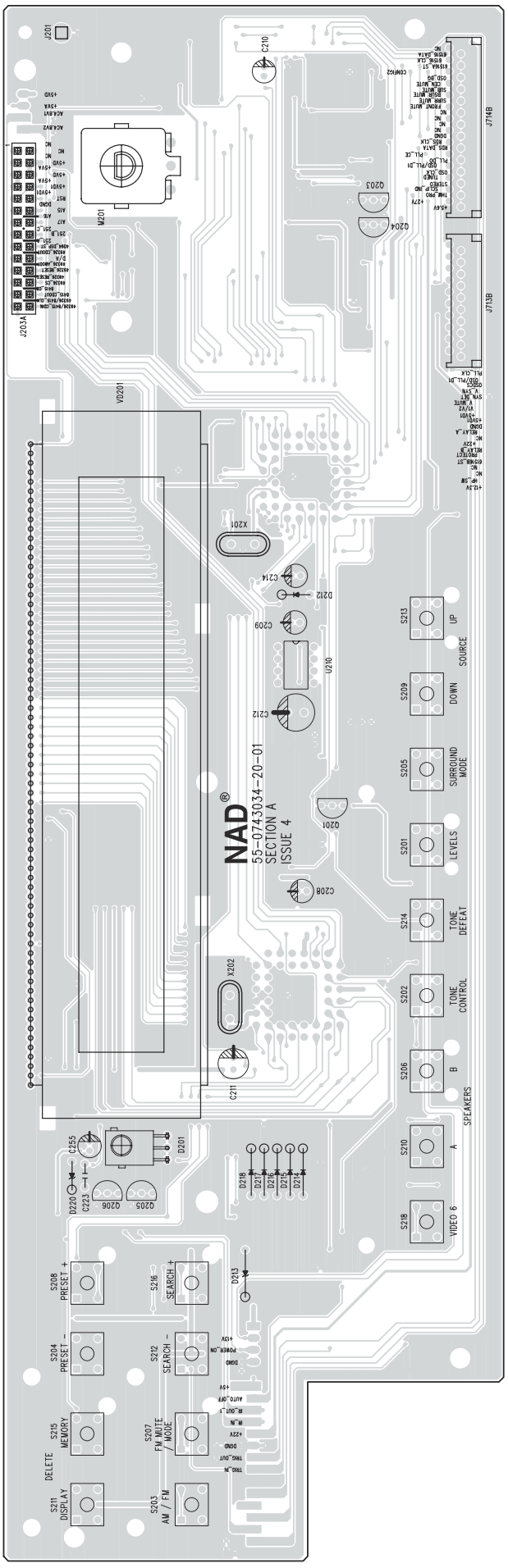
FRONT / CENTER AMPLIFIER BOARD



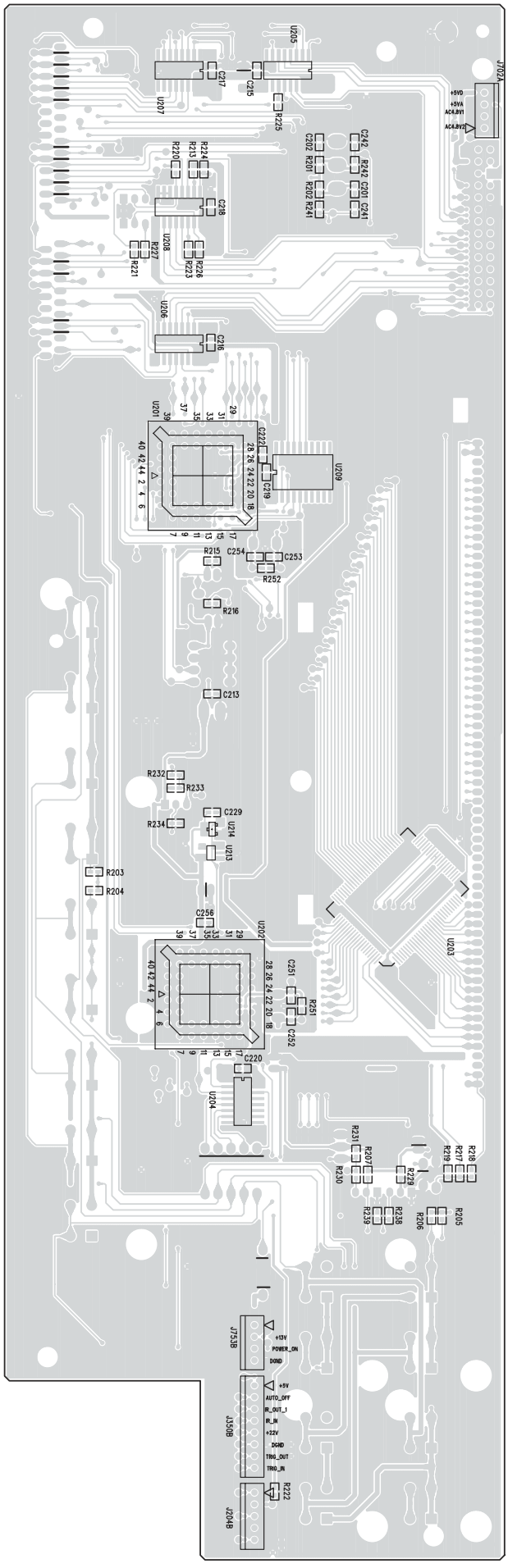
SURROUND AMPLIFIER BOARD



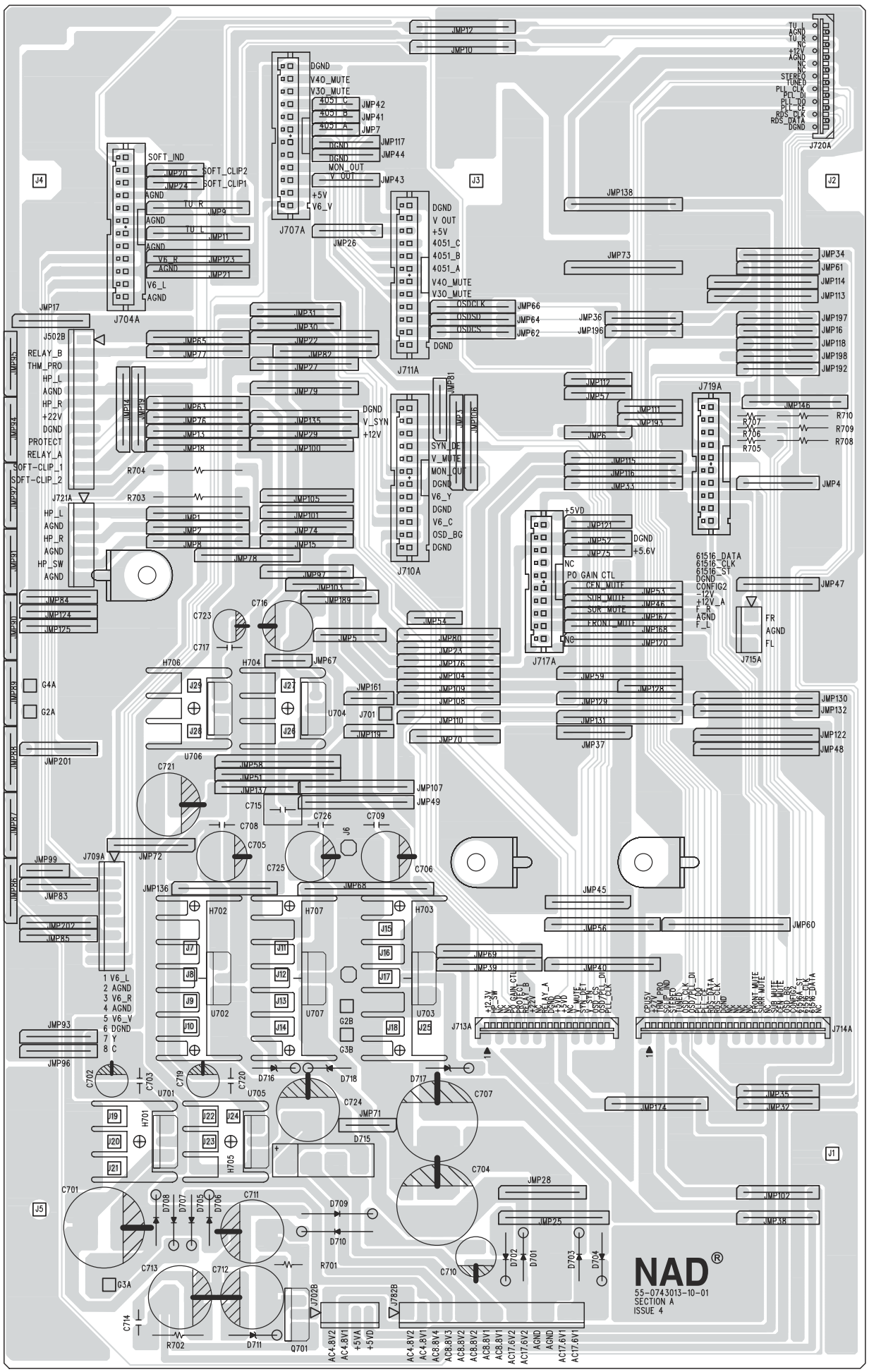
KEYBOARD
- COMPONENT SIDE



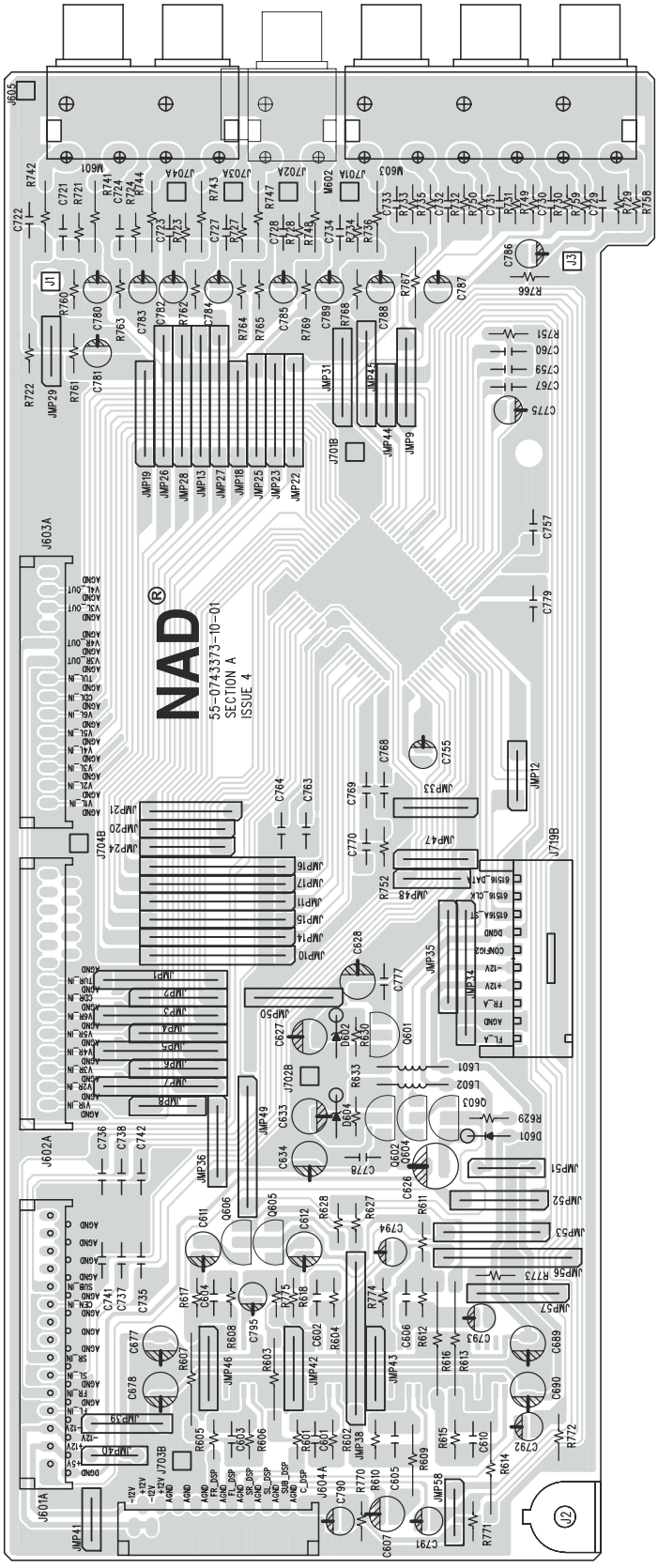
- COPPER SIDE



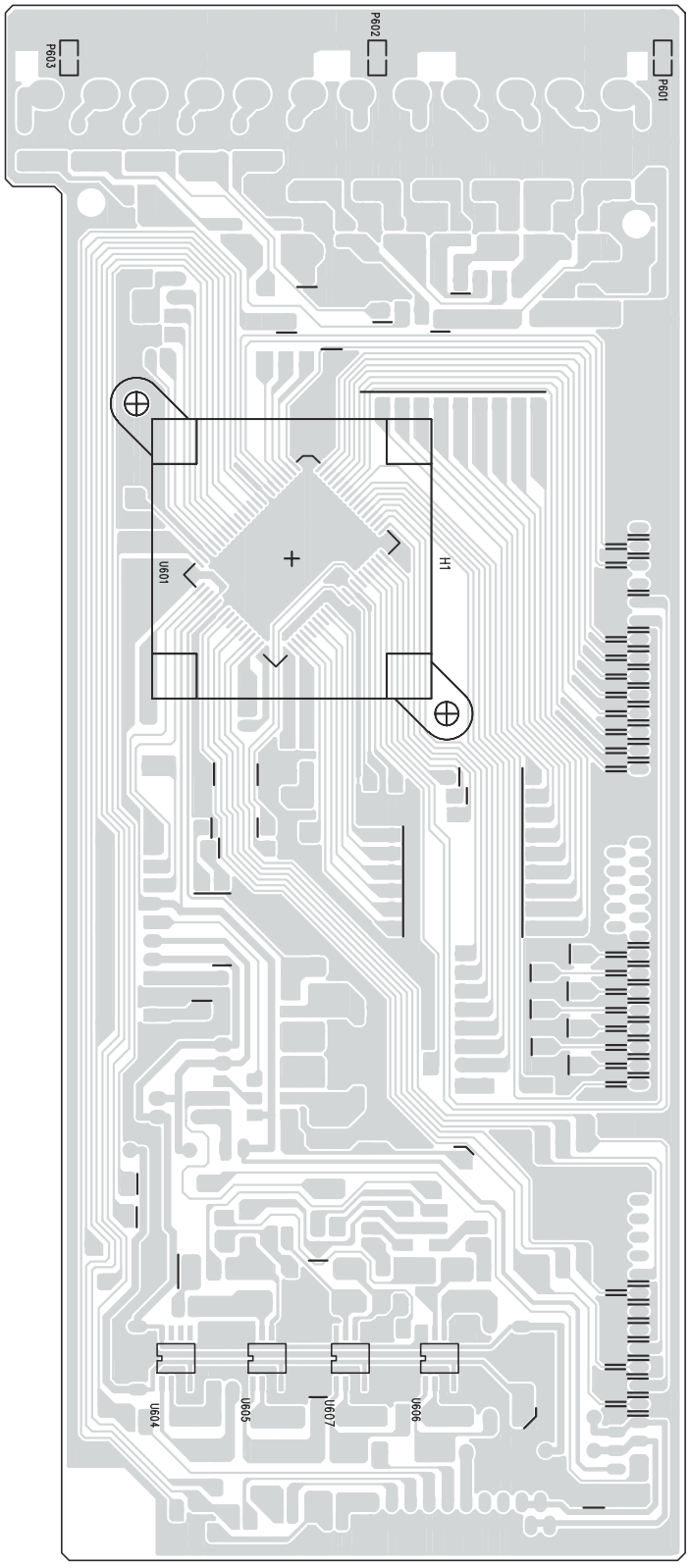
MAIN BOARD



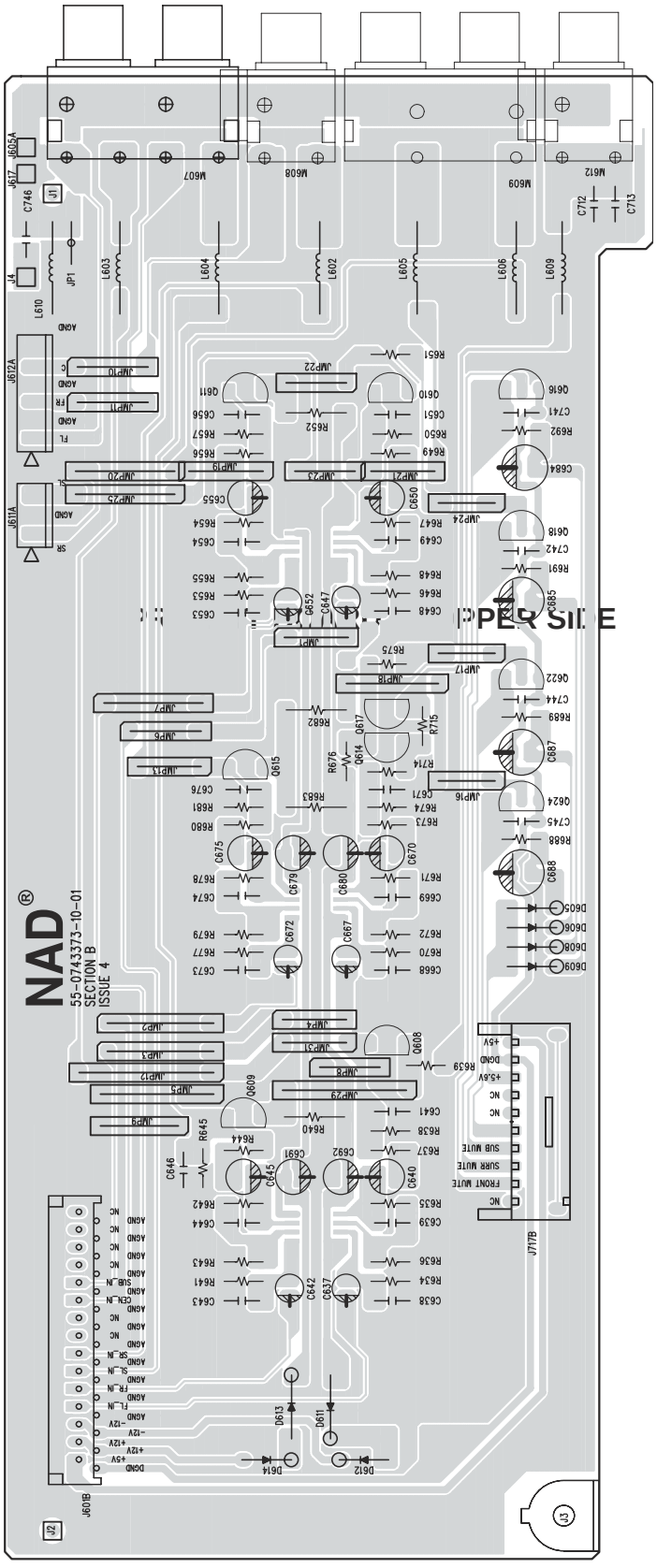
MULTI-CHANNEL BOARD
- COMPONENT SIDE



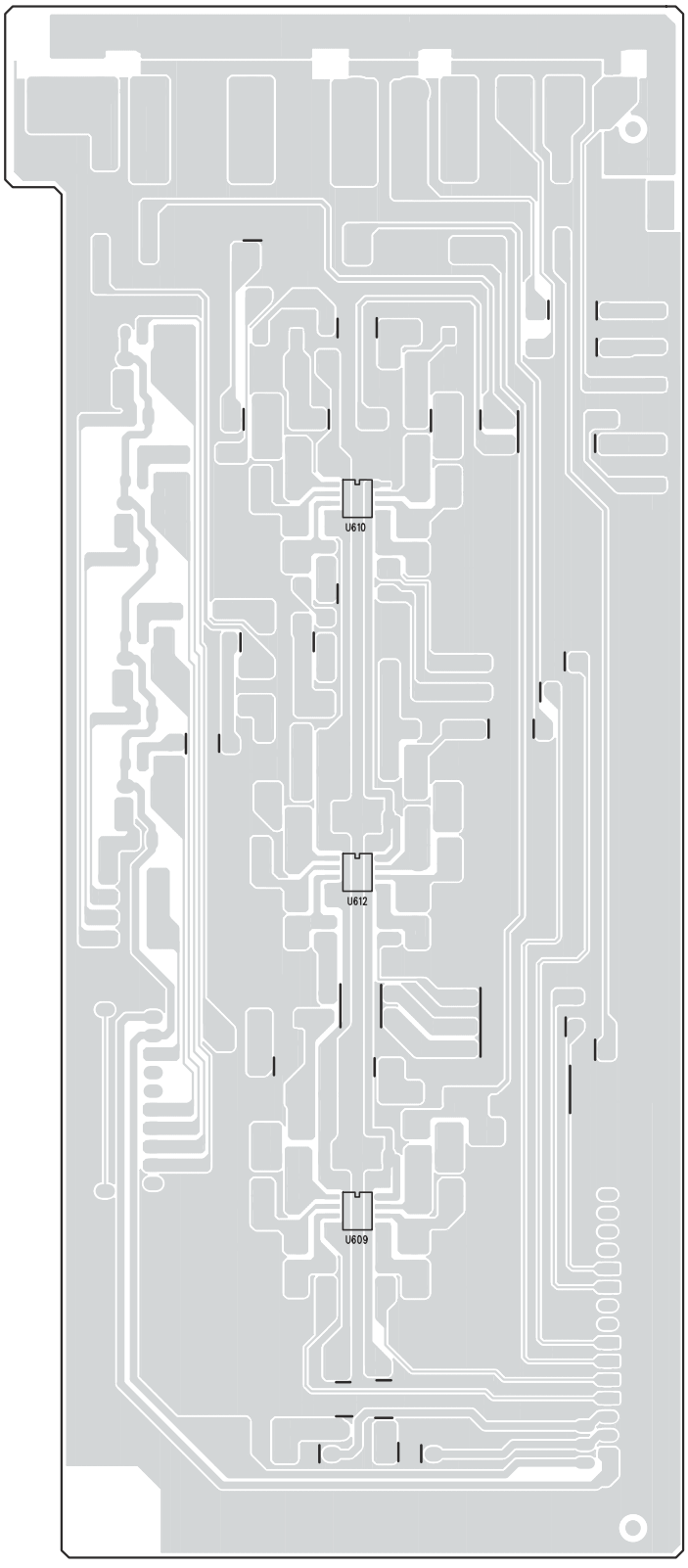
- COPPER SIDE



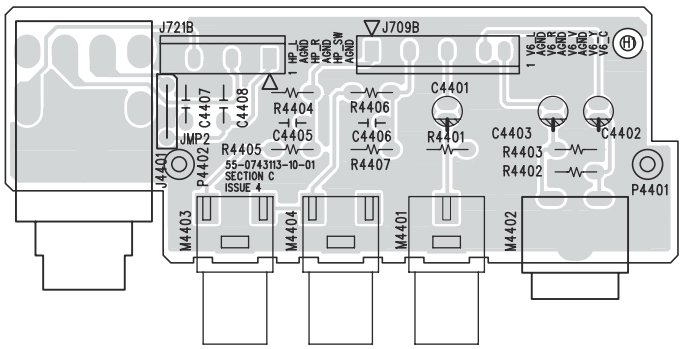
PRE-OUT BOARD
- COMPONENT SIDE



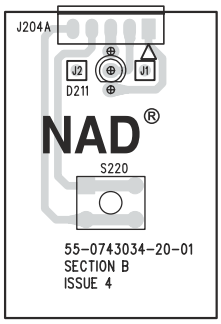
- COPPER SIDE



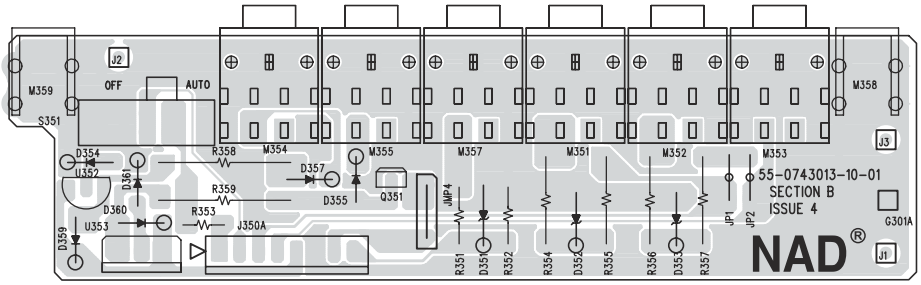
VIDEO 6 BOARD



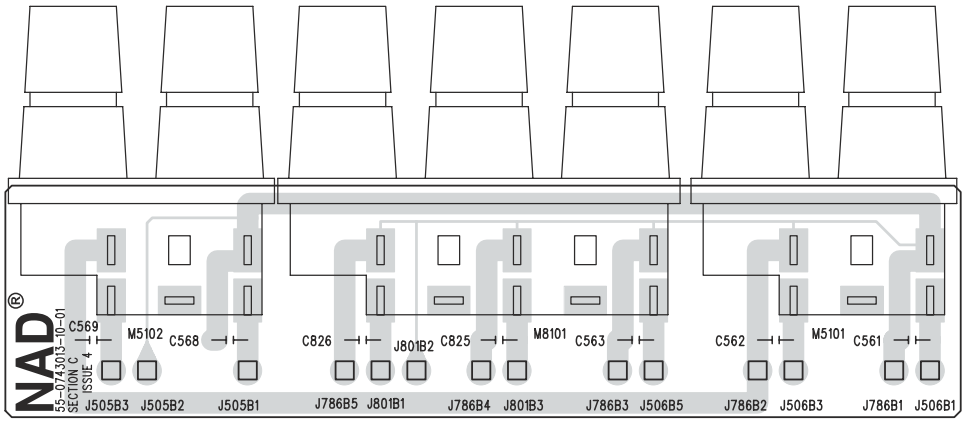
LED BOARD



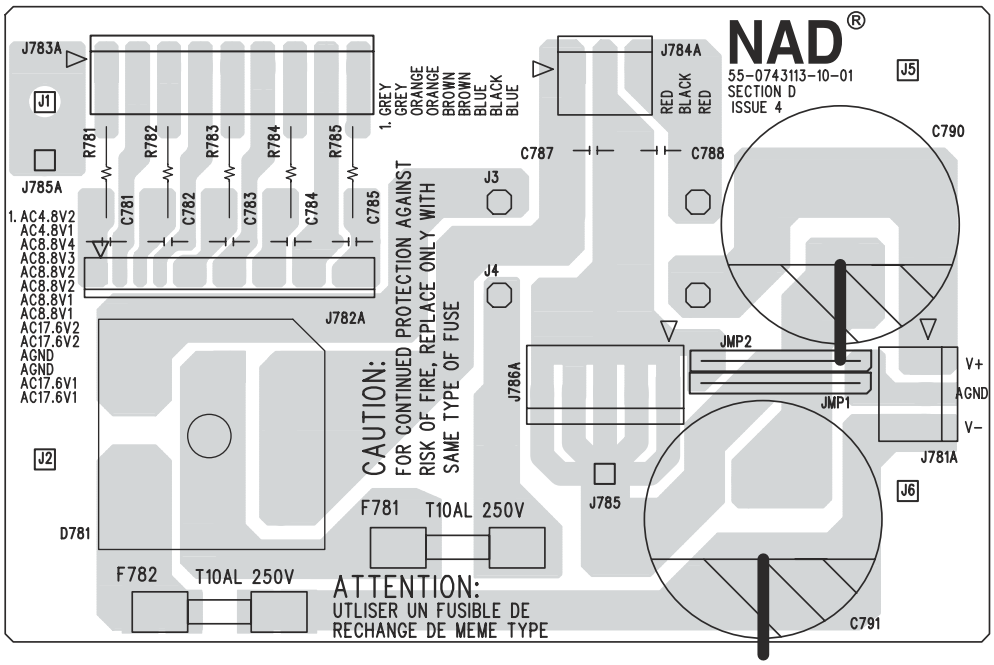
TRIGGER BOARD



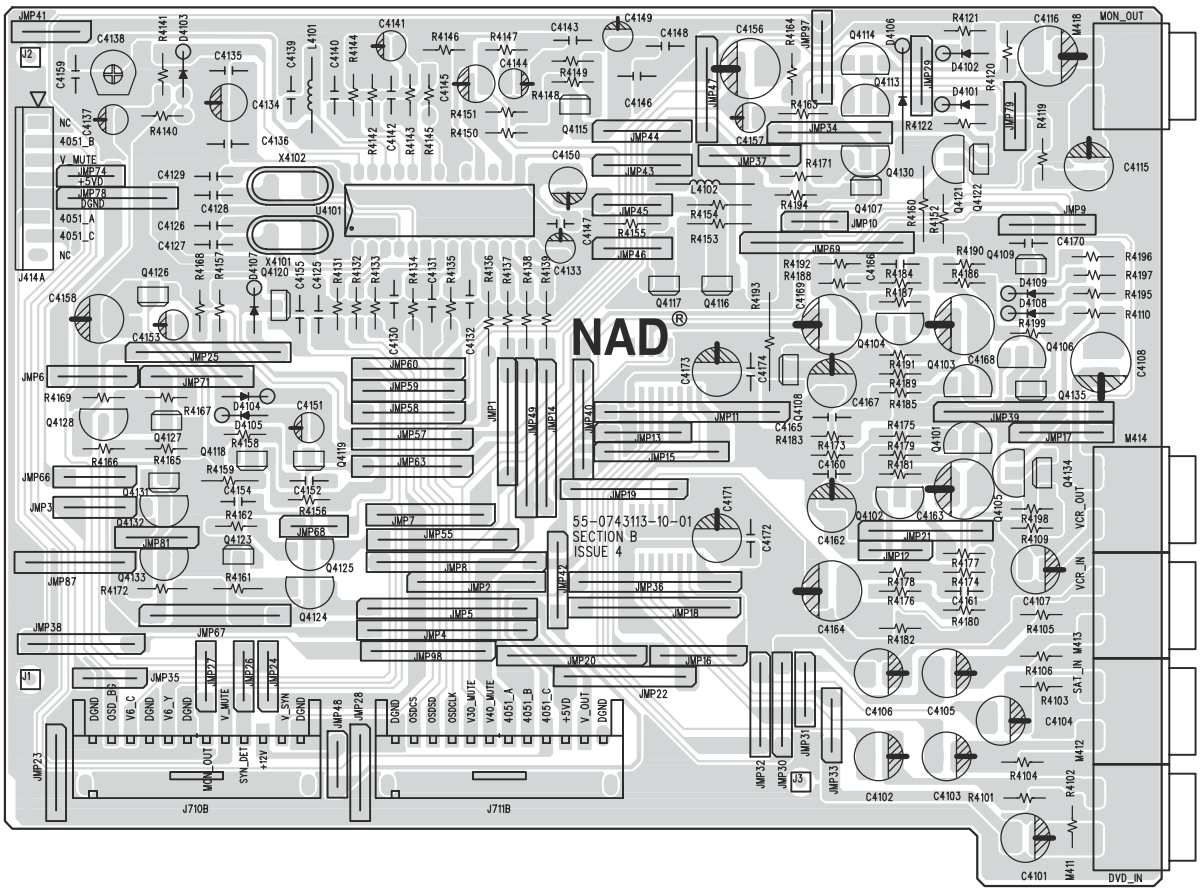
SPEAKER TERMINAL BOARD



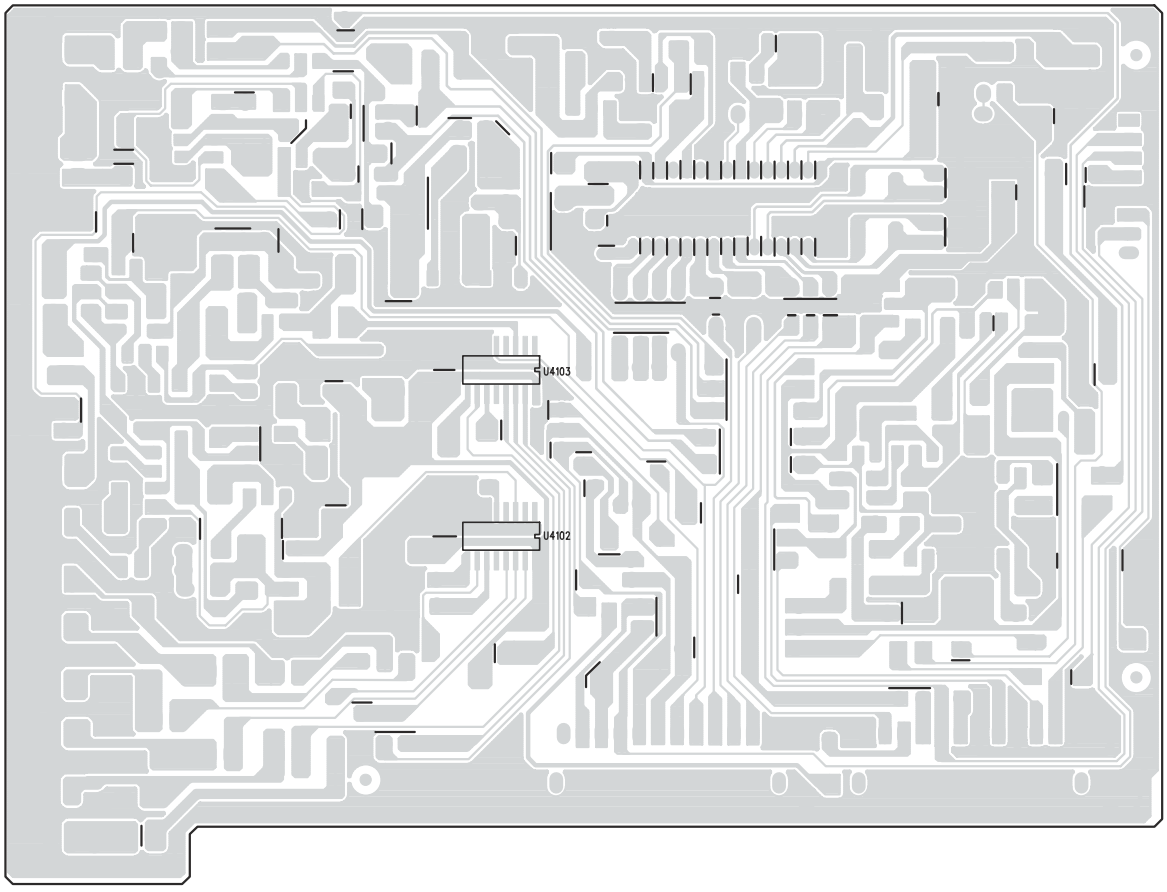
POWER SUPPLY (SECONDARY)



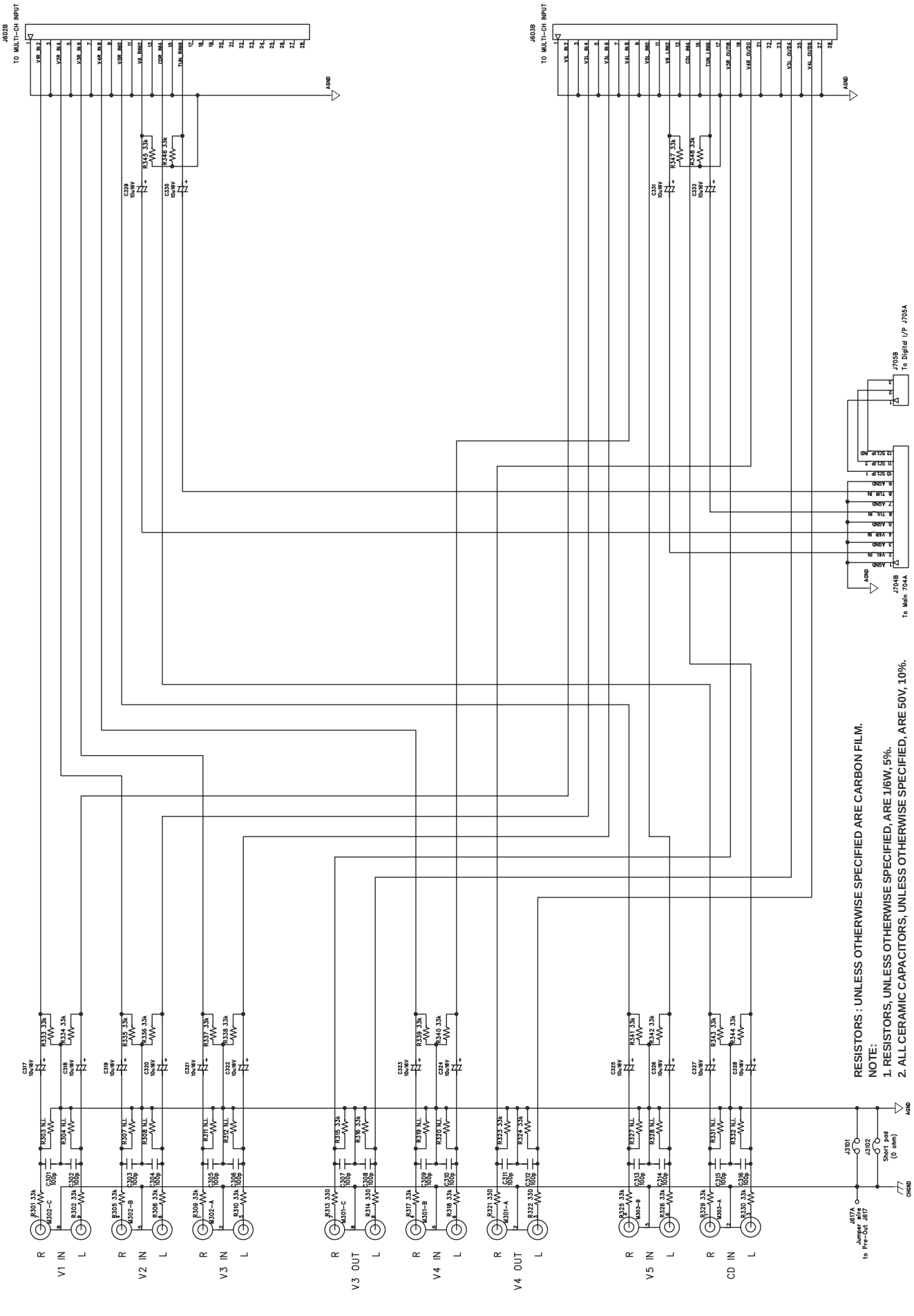
S-VIDEO BOARD - COMPONENT SIDE



S-VIDEO BOARD - COPPER SIDE



SCHEMATIC DIAGRAM
AUDIO SWITCH

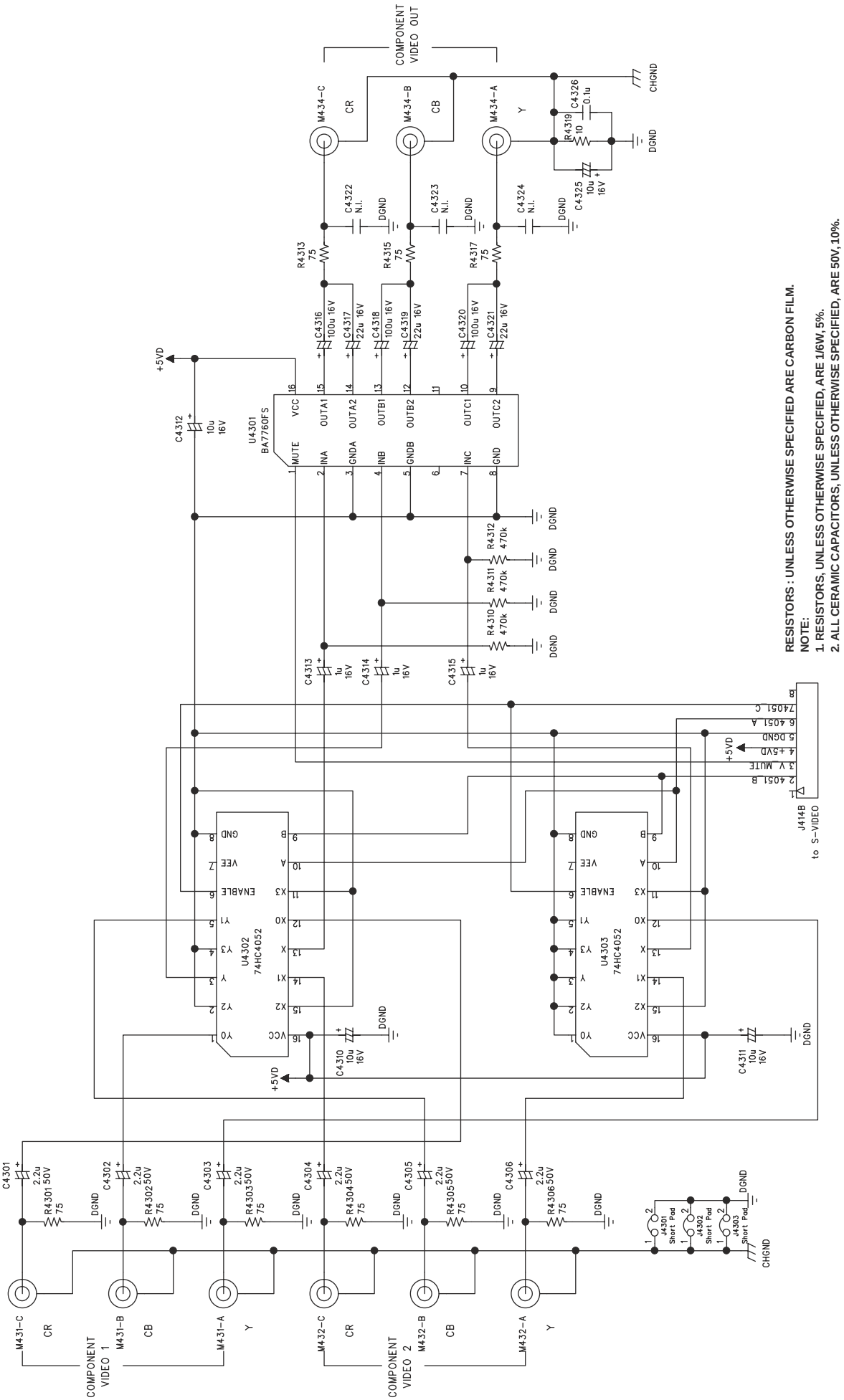


RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.

NOTE:

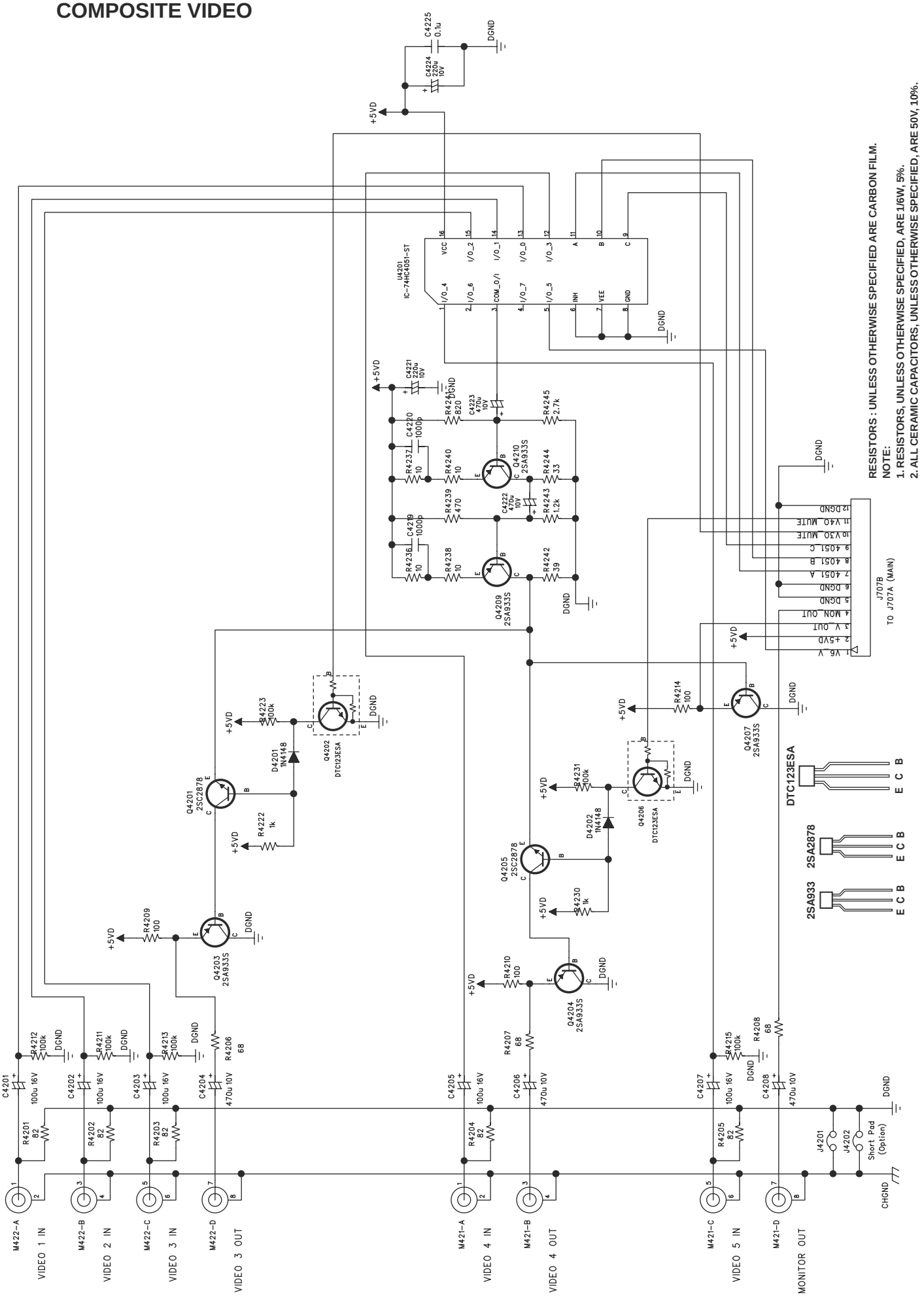
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

COMPONENT VIDEO

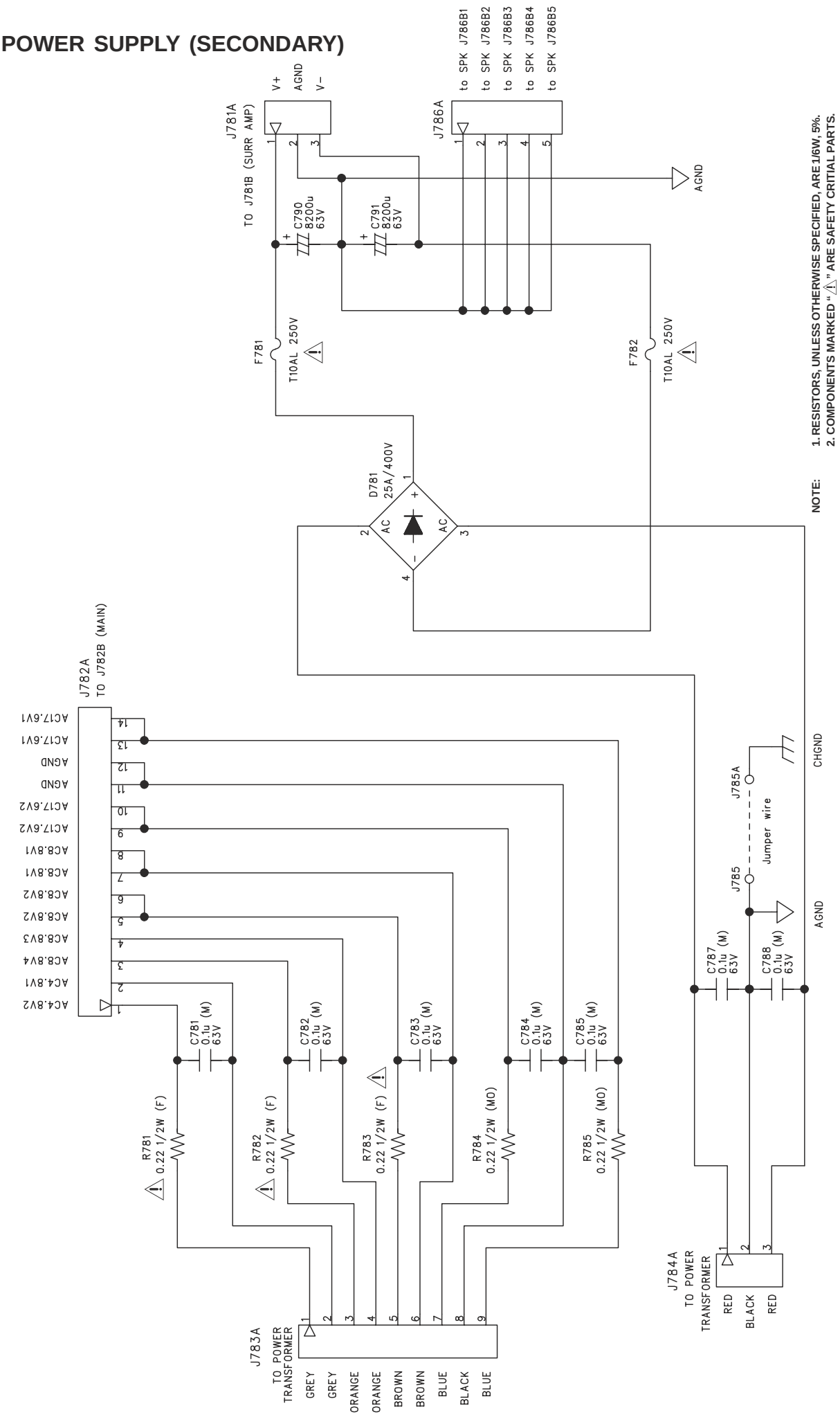


RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

COMPOSITE VIDEO

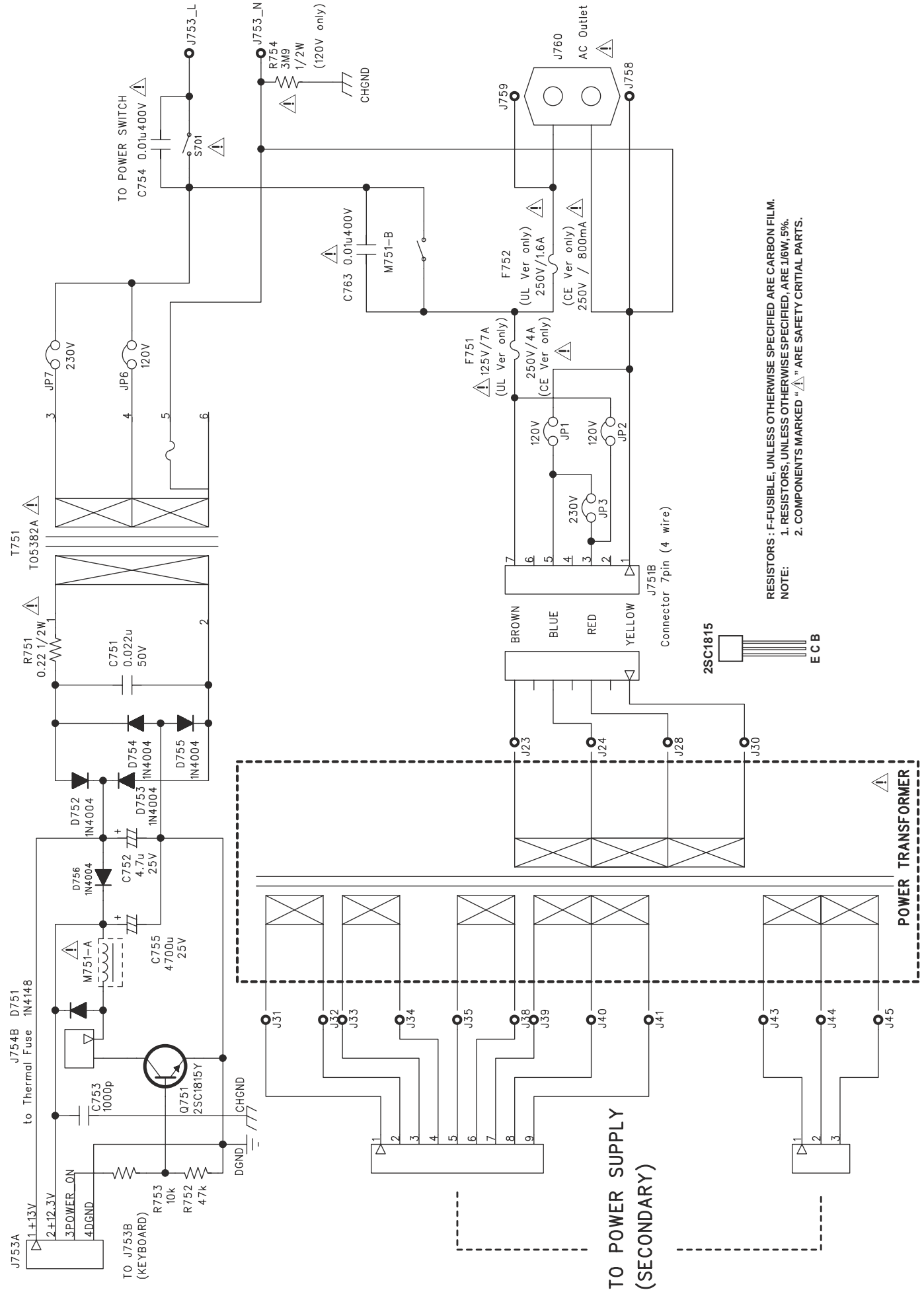


POWER SUPPLY (SECONDARY)

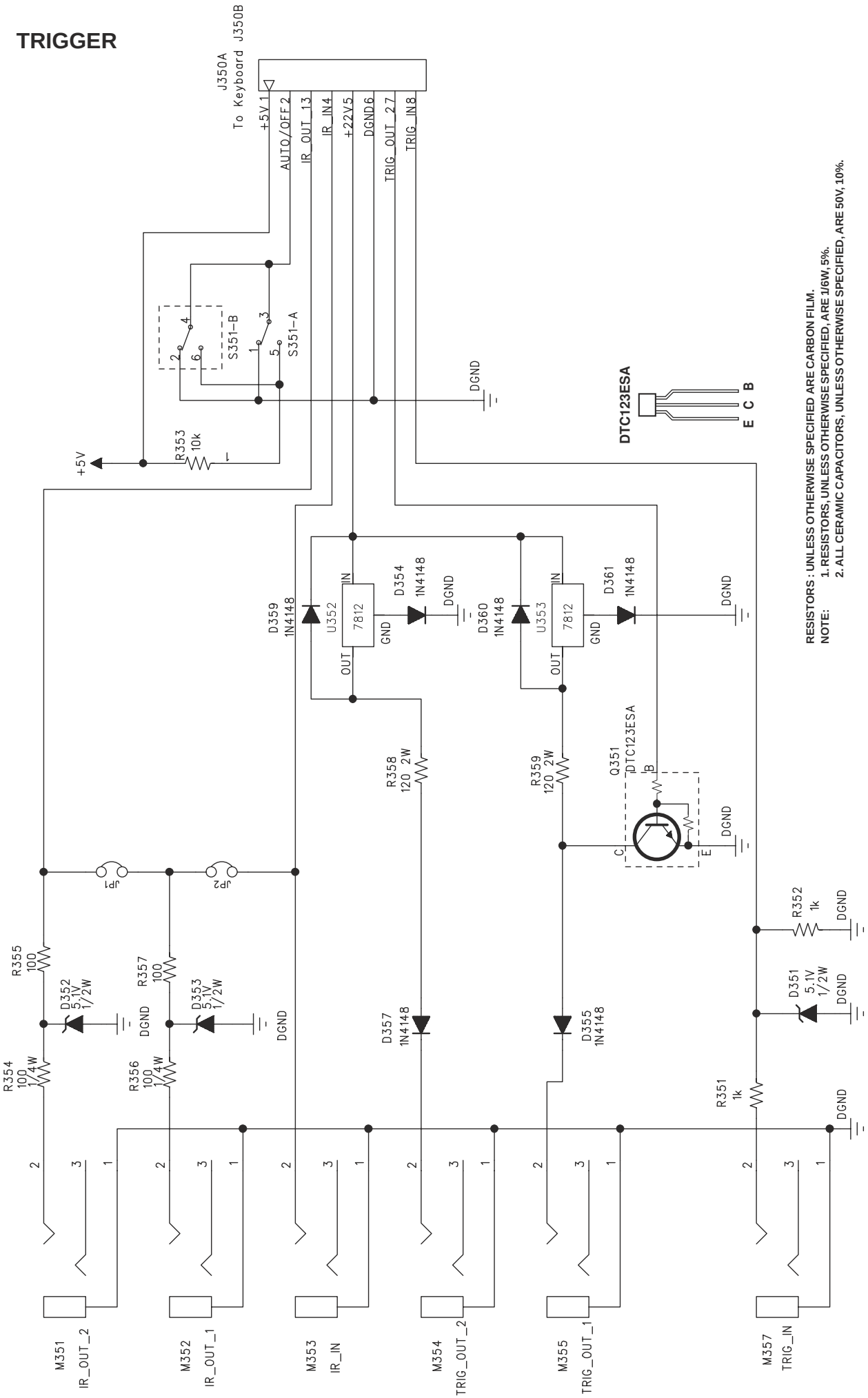


NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. COMPONENTS MARKED "⚠" ARE SAFETY CRITIAL PARTS.

POWER SUPPLY (STAND BY)

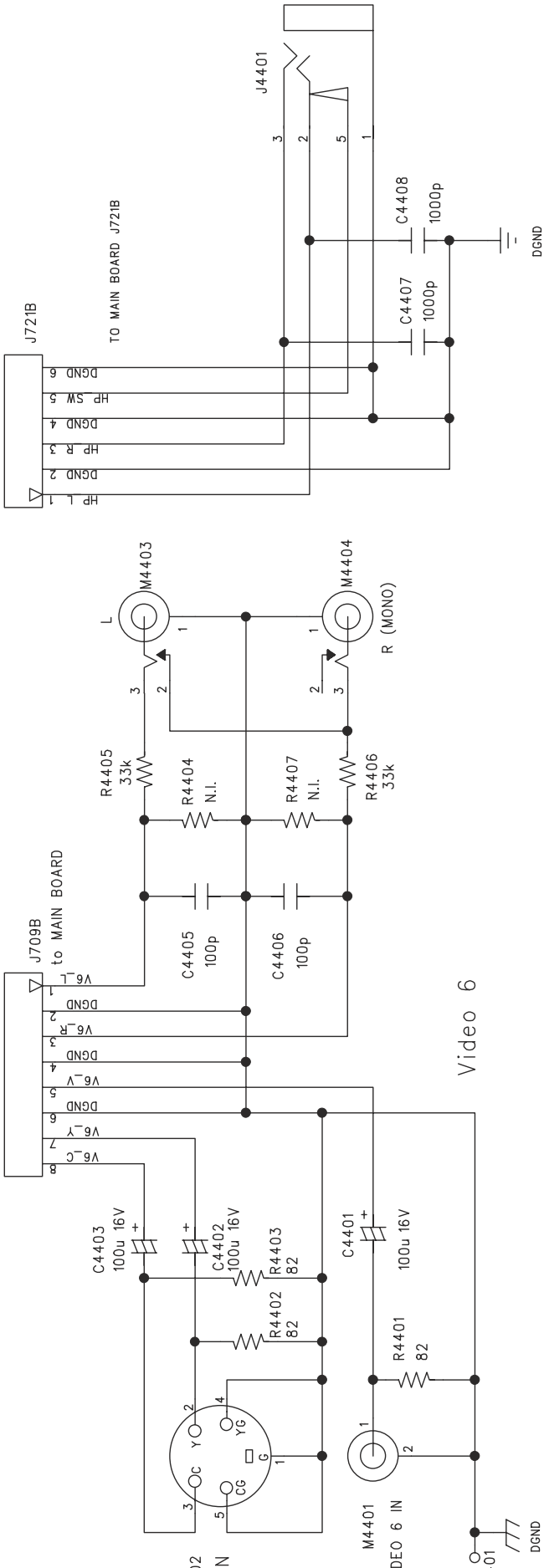


TRIGGER



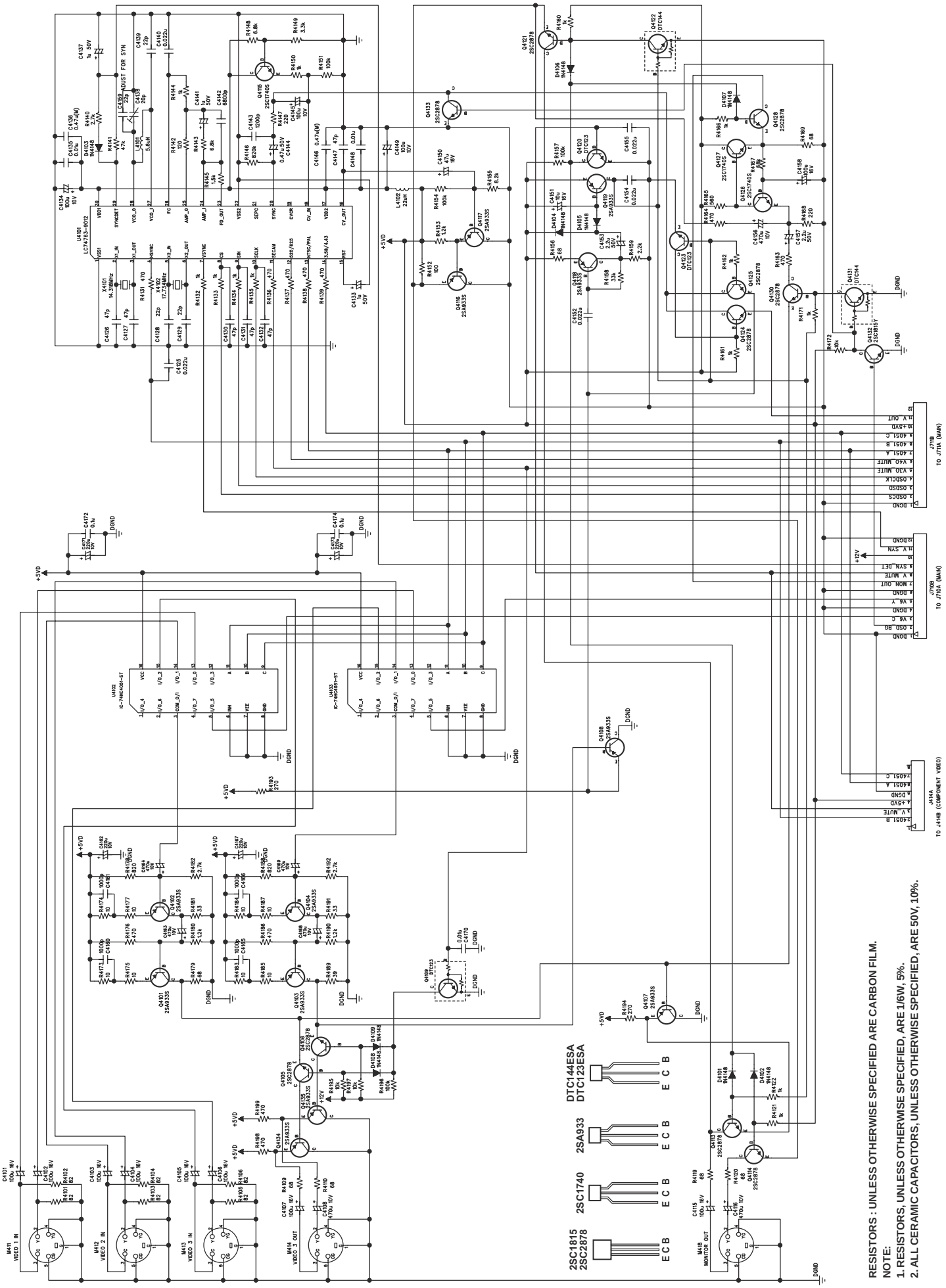
RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

VIDEO 6



RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

S-VIDEO

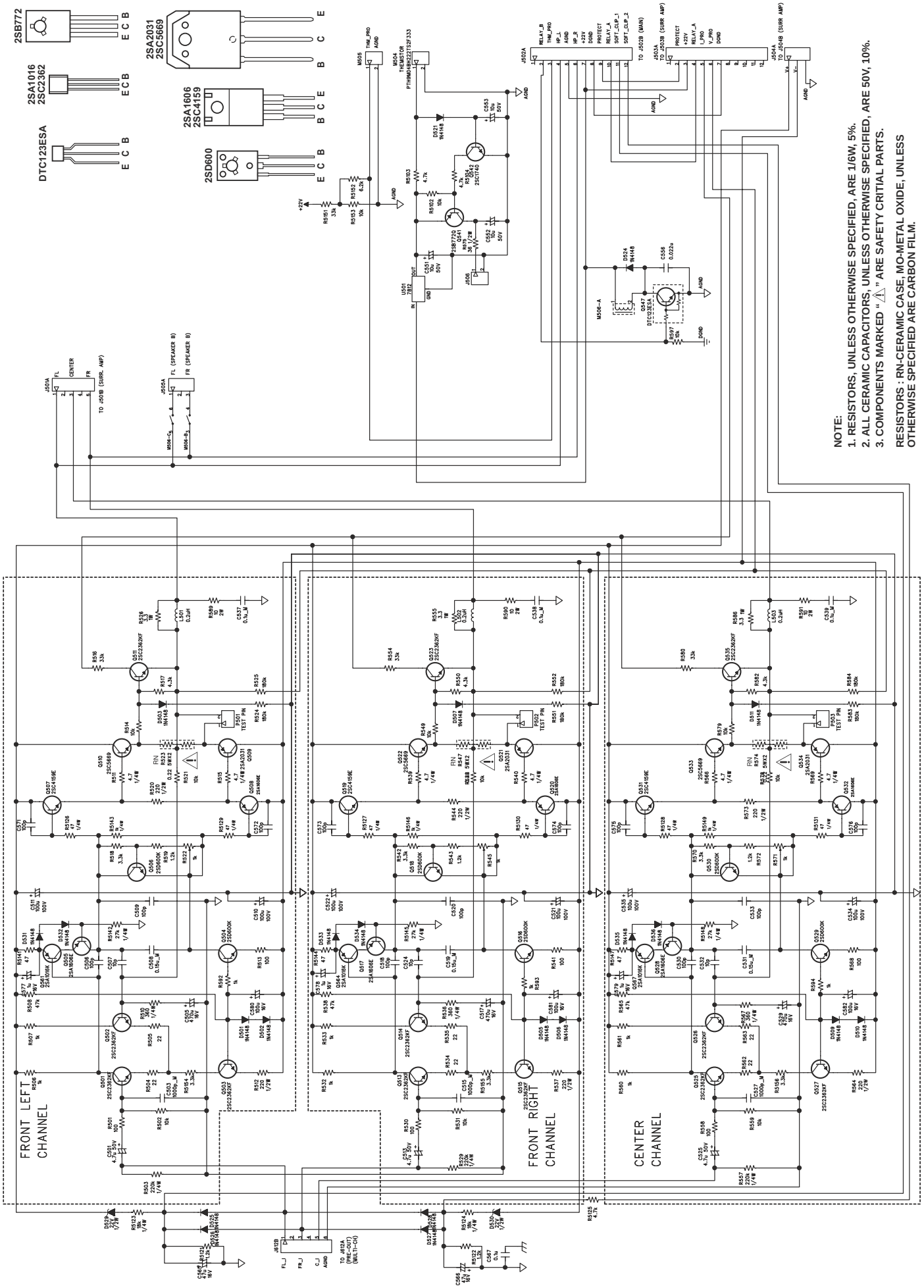


RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.

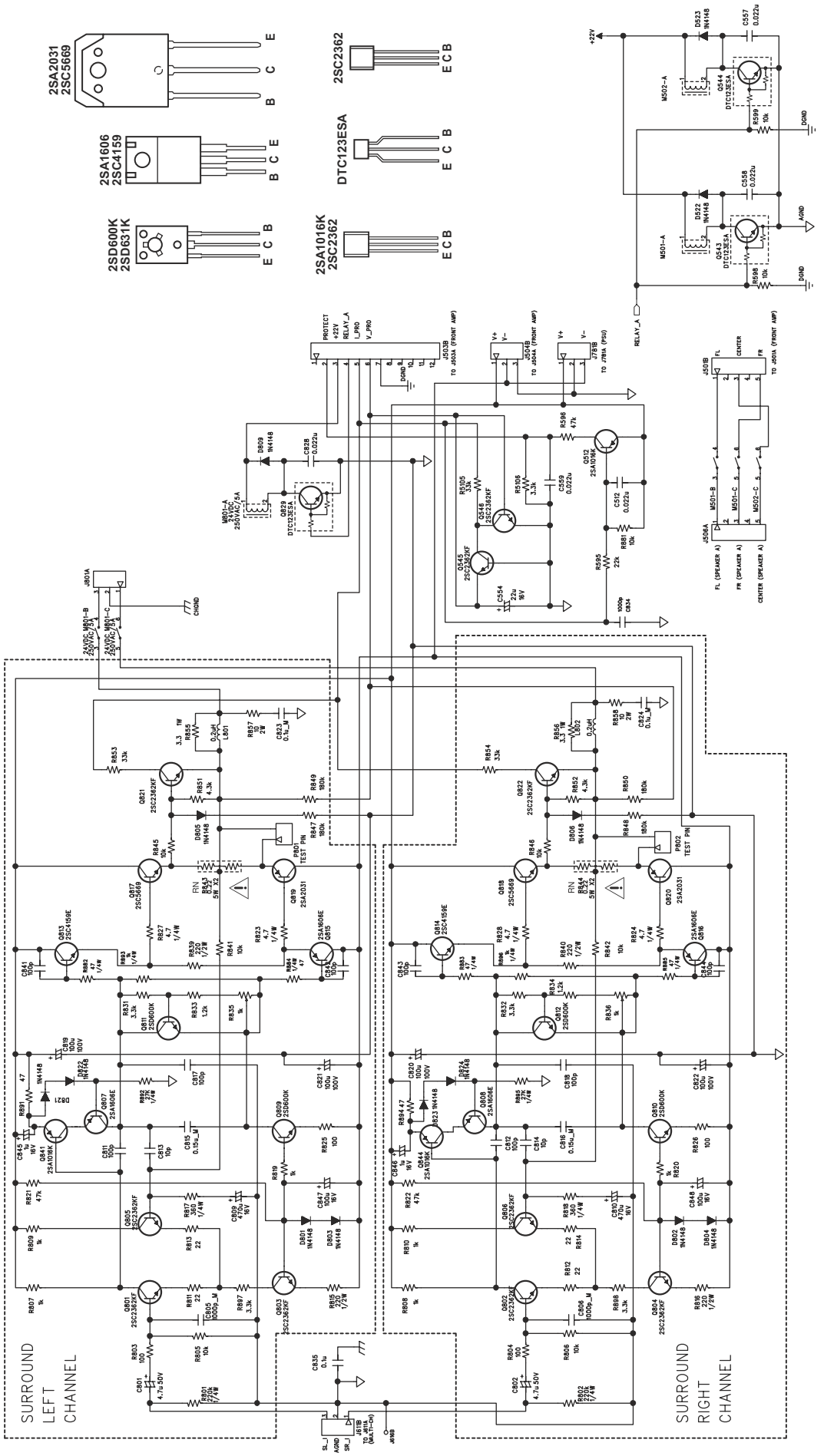
NOTE:

1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

FRONT / CENTER AMPLIFIER



SURROUND AMPLIFIER

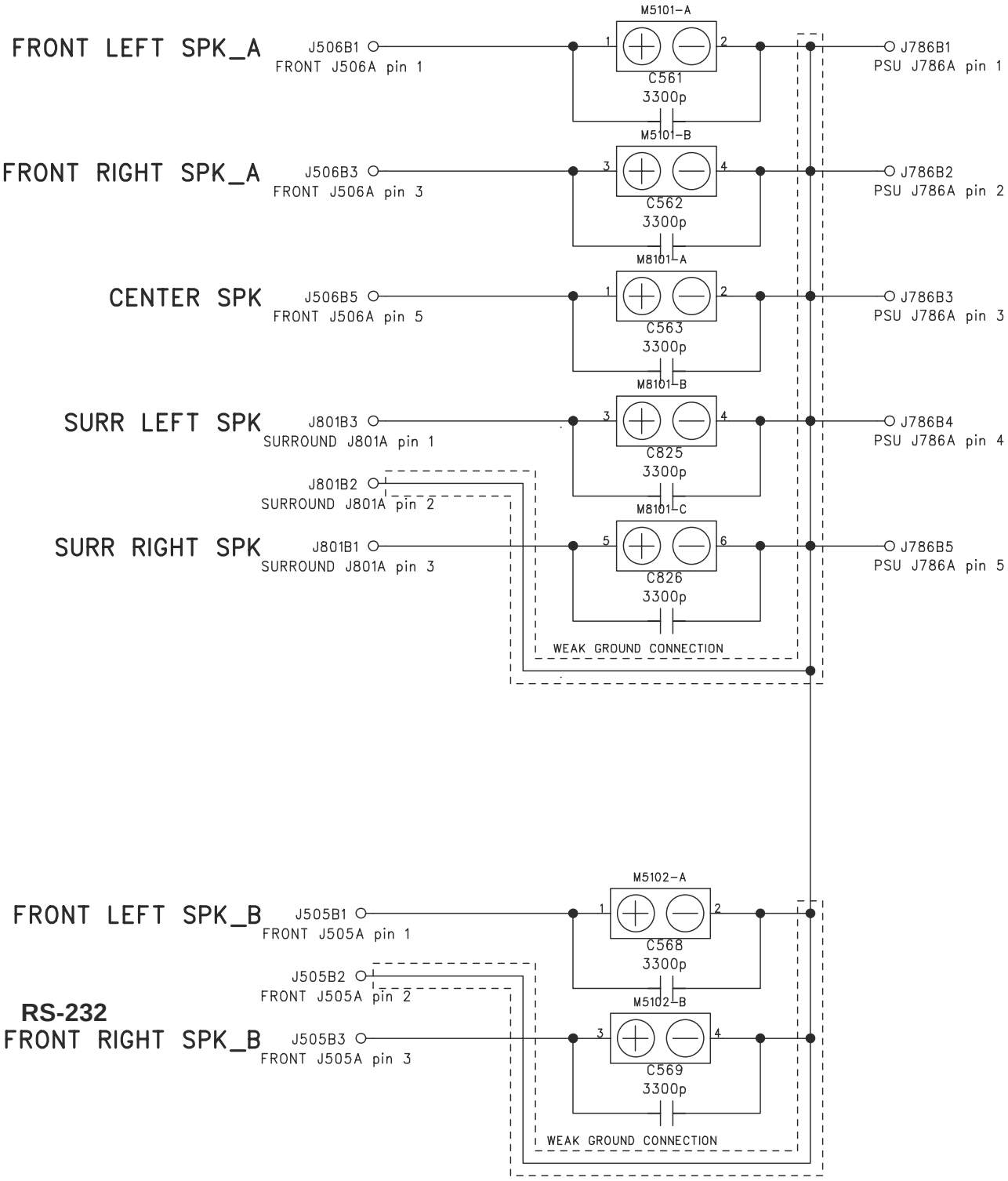


NOTE:

1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
3. COMPONENTS MARKED " ⚠ " ARE SAFETY CRITIAL PARTS.

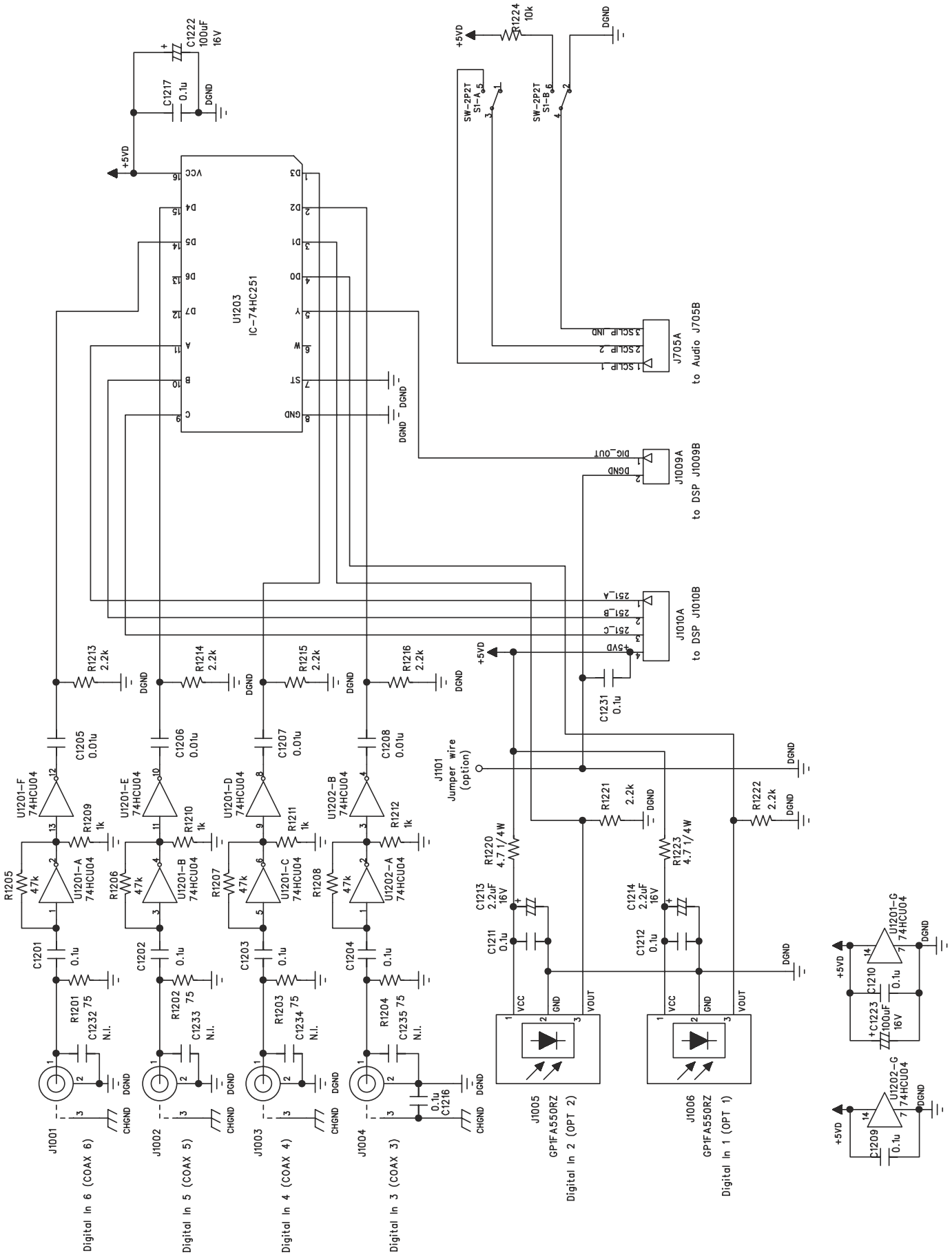
RESISTORS : RN-CERAMIC CASE, MO-METAL OXIDE, UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.

SPEAKER A & B



RS-232

DIGITAL IN & OUT



MAIN BOARD

TO FRONT POWER AMP

TO AUDIO SWITCH

TO S-VIDEO

TO DSP

J502B — RELAY_B, THM_PRO, HP_L, AGND, HP_R, +22V, DGND, PROTECT, RELAY_A, SOFT_CLIP_1, SOFT_CLIP_2

J704A — AGND, V6_L, AGND, V6_R, AGND, TU_L, AGND, TU_R, AGND, SOFT_CLIP_1, SOFT_CLIP_2, SOFT_IND

J711A — DGND, OSDCS, OSDSD, OSDCLK, V30_MUTE, V40_MUTE, 4051_A, 4051_B, 4051_C, +5V, V_OUT, DGND

J710A — DGND, OSD_BG, V6_C, DGND, V6_Y, DGND, MON_OUT, V_MUTE, SYN_DET, V_SYN, DGND

J715A — F_R, AGND, F_L

R703 390 1W, R704 390 1W

MAIN1(00:27)

MAIN101 — +12.3V, MAIN101, HP_SW, MAIN104, MAIN105, PO_GAIN_CTL, PROTECT, MAIN106, RELAY_B, +22V, MAIN109, RELAY_A, DGND, +5VD, +5VD, MAIN114, MAIN115, MAIN116, MAIN117, MAIN118, MAIN119, V_MUTE, SYN_DET, V_SYN, OSDCS, OSD/PLL_DI, PLL_CLK

J713A
TO J713B (KEYBOARD)

MAIN2(00:27)

MAIN202 — +27V CPU5V, MAIN202, MAIN203, THM_PRO, SCLIP_IND, MAIN204, STEREO, MAIN205, TUNED, MAIN206, OSD_CLK, MAIN207, OSD/PLL_DI, MAIN208, PLL_DO, MAIN209, PLL_CE, MAIN210, RDS_DATA, MAIN211, RDS_CLK, DGND, MAIN217, MAIN218, FRONT MUTE, SURR MUTE, MAIN220, MAIN221, SUB MUTE, CEN MUTE, MAIN222, MAIN223, OSD_BG, CONFIG2, MAIN224, MAIN225, 61516A_ST, 61516_CLK, MAIN226, 61516_DATA

J714A
TO J714B (KEYBOARD)

J720A — TU_L, AGND, TU_R, +12V_A, AGND, STEREO, TUNED, PLL_CLK, PLL_DI, PLL_DO, PLL_CE, RDS_CLK, RDS_DATA, DGND

TO TUNER

J719A — F_L, AGND, F_R, +12V_A, -12V, CONFIG2, DGND, 61516A_ST, 61516_CLK, 61516_DATA

TO MULTI-CH

R705 330, R706 330, R707 330, R708 4.7k, R709 4.7k, R710 4.7k

J717A — FRONT MUTE, SUR MUTE, SUB MUTE, CEN MUTE, PO GAIN CTL, CPU5V, DGND, +5VD

TO PRE-OUT

J707A — V6_V, +5V, V_OUT, MON_OUT, DGND, 4051_A, 4051_B, 4051_C, V30_MUTE, V40_MUTE, DGND

TO COMPOSITE VIDEO

J709A — V6_L, AGND, V6_R, AGND, V6_V, DGND, V6_Y, V6_C

J721A — HP_L, AGND, HP_R, AGND, HP_SW, AGND

TO VIDEO 6

2SD600K

E B C

J702B
TO J702A(KEYBOARD)
AC4.8V2, AC4.8V1, +5VA, +5VD

TO VFD — AC4.8V2, AC4.8V1

TO +5V — AC8.8V3, AC8.8V2

TO DSP DC SUPPLY — AC8.8V2, AC8.8V1

TO +/- 12V DC SUPPLY — AC17.6V2, AGND, AGND, AC17.6V1, AC17.6V1

J782B
TO J782A (PSU2)

D701 1N4004, D702 1N4004, D703 1N4004, D704 1N4004

D716 5.1V 2W, D717 5.1V 2W, D718 5.1V 2W

U702 7812, U703 7912, U707 7812

C704 3300u 35V, C705 1000u 25V, C706 1000u 25V, C707 2200u 35V, C708 0.022u, C709 0.022u, C725 1000u 25V, C726 0.022u

C710 50V 47u, D710 1N4004, D709 1N4004, Q701 2SD600K, R701 1k, C711 1000u 50V, C712 50V 1000u, D711 1/2W 27V, C713 1000u 50V, C714 0.022u, R702 33k

J701
to Heat Sink

U704 7805, C715 1u, C716 1000u 25V

D705 1N4004, D706 1N4004, D707 1N4004, D708 1N4004

J791
to CHGND

U701 7805, C701 2200u 25V, C702 16V 100u, C703 0.022u

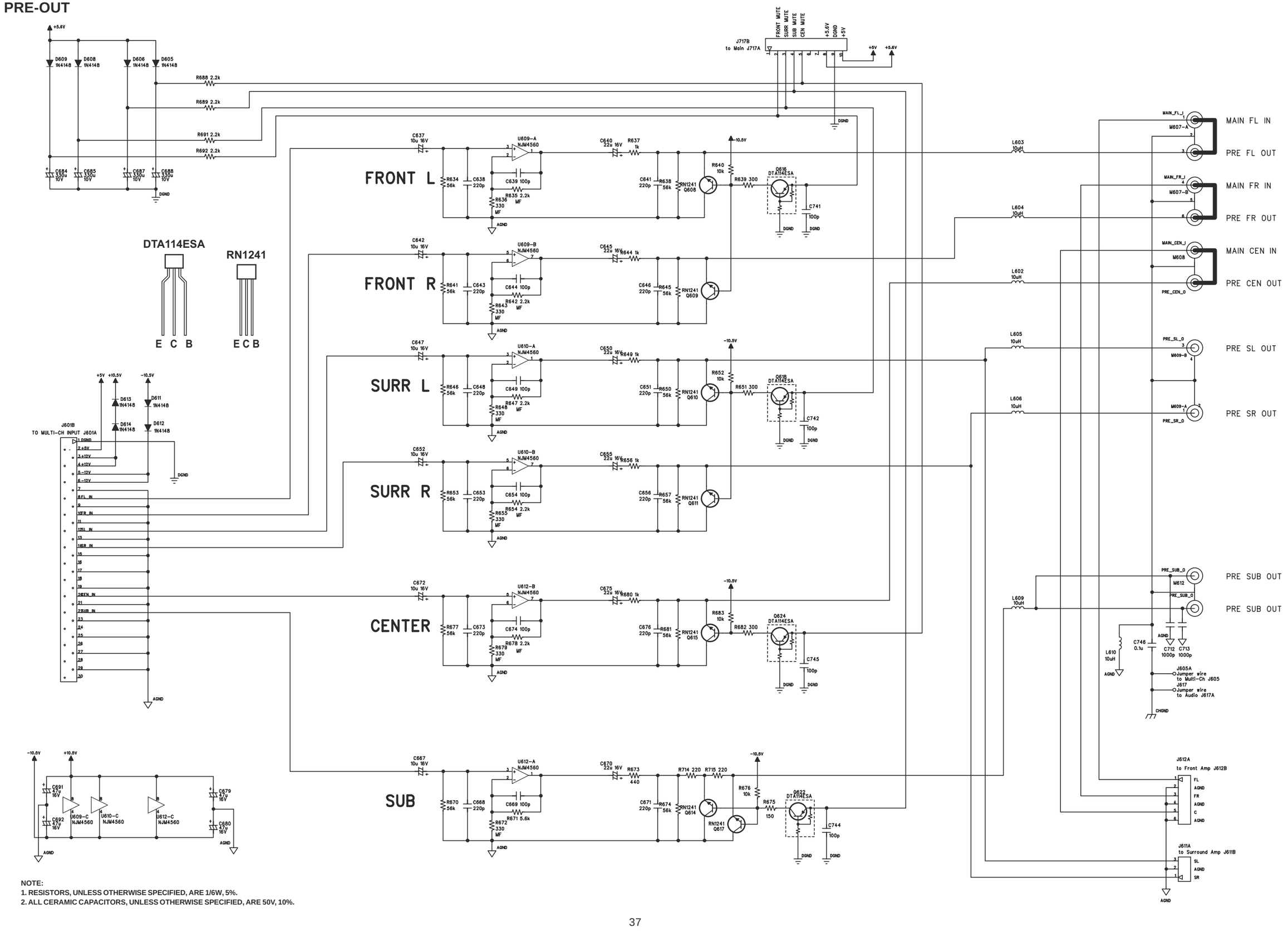
D715 RS402L 70V 4A

U706 7805, C721 2200u 25V, C723 100u 16V, C717 0.022u, C724 2200u 25V

U705 7805, C719 100u 16V, C720 0.022u

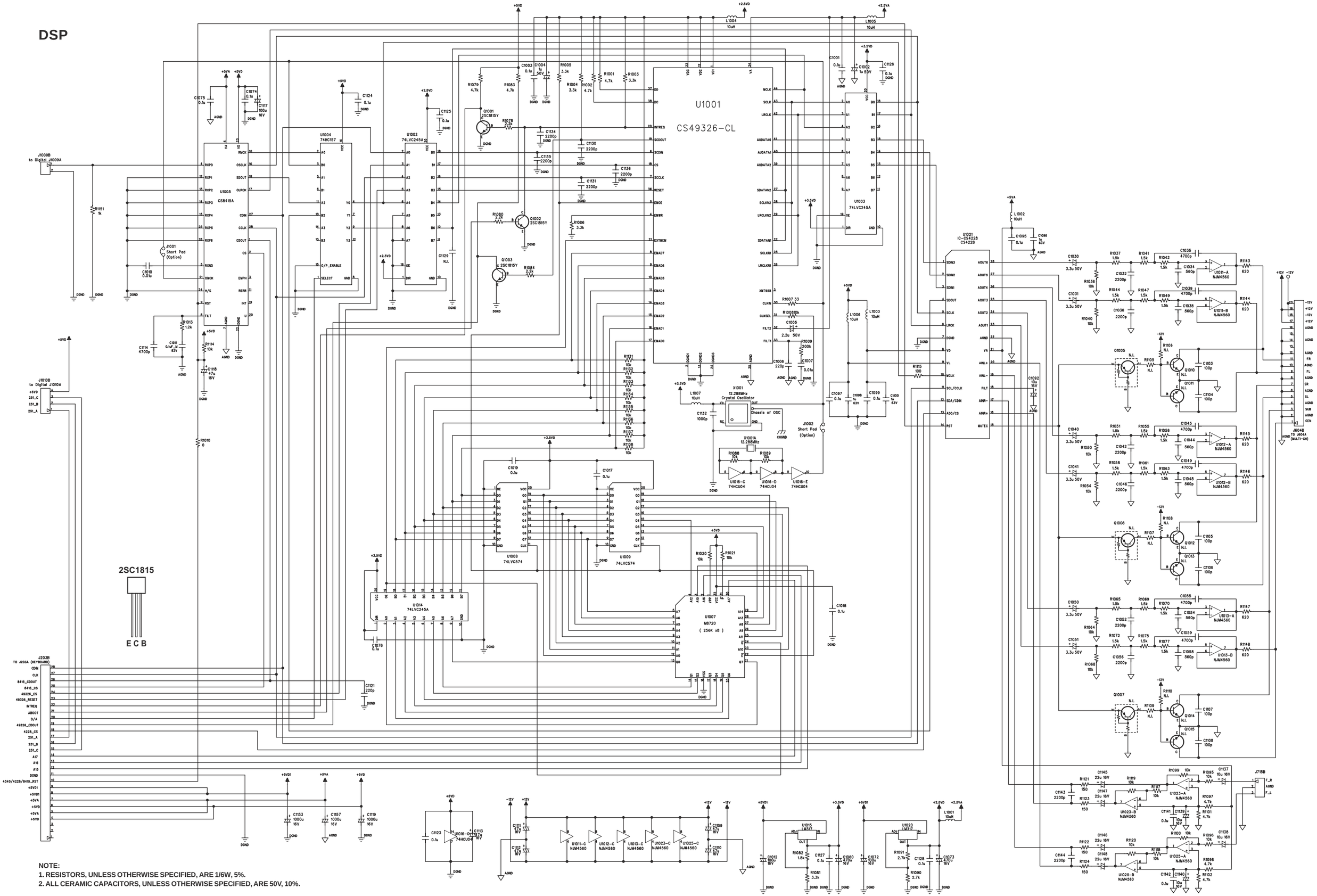
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

PRE-OUT

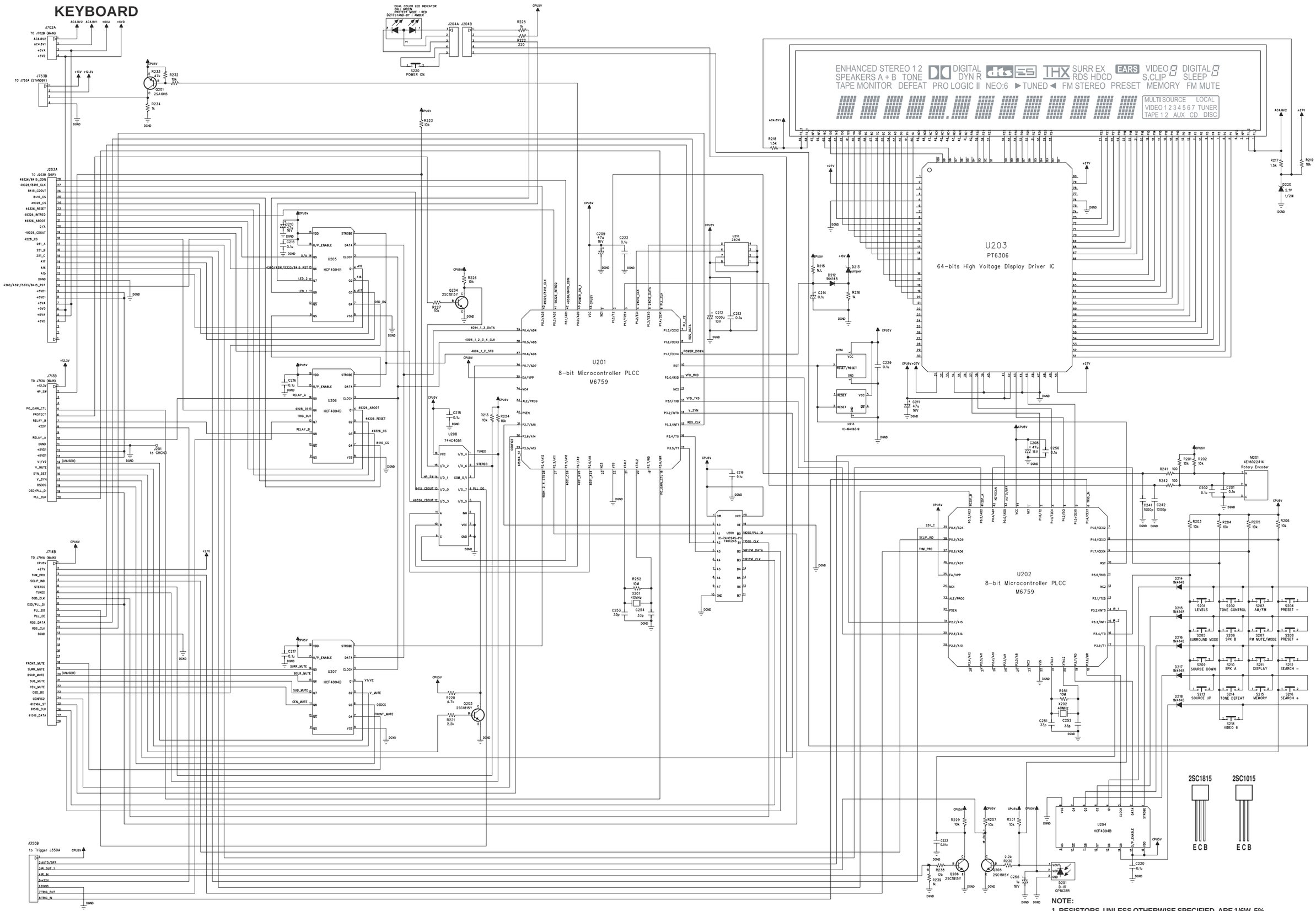


NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

DSP


U1001
CS49326-CL
U1005
CS8415A
U1002
74LVC245A
U1004
74HC157
U1003
74LVC245A
U1008
74LVC574
U1009
74LVC574
U1014
74LVC245A
U1007
M8720
(256K x8)
U1021
IC-CS4228
CS4228
X1001
12.288MHz
Crystal Oscillator
X1001A
12.288MHz
Chassis of OSC
J1009B
to Digital J1009A
J1010B
to Digital J1010A
J203B
TO J203A (KEYBOARD)
2SC1815
E C B
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

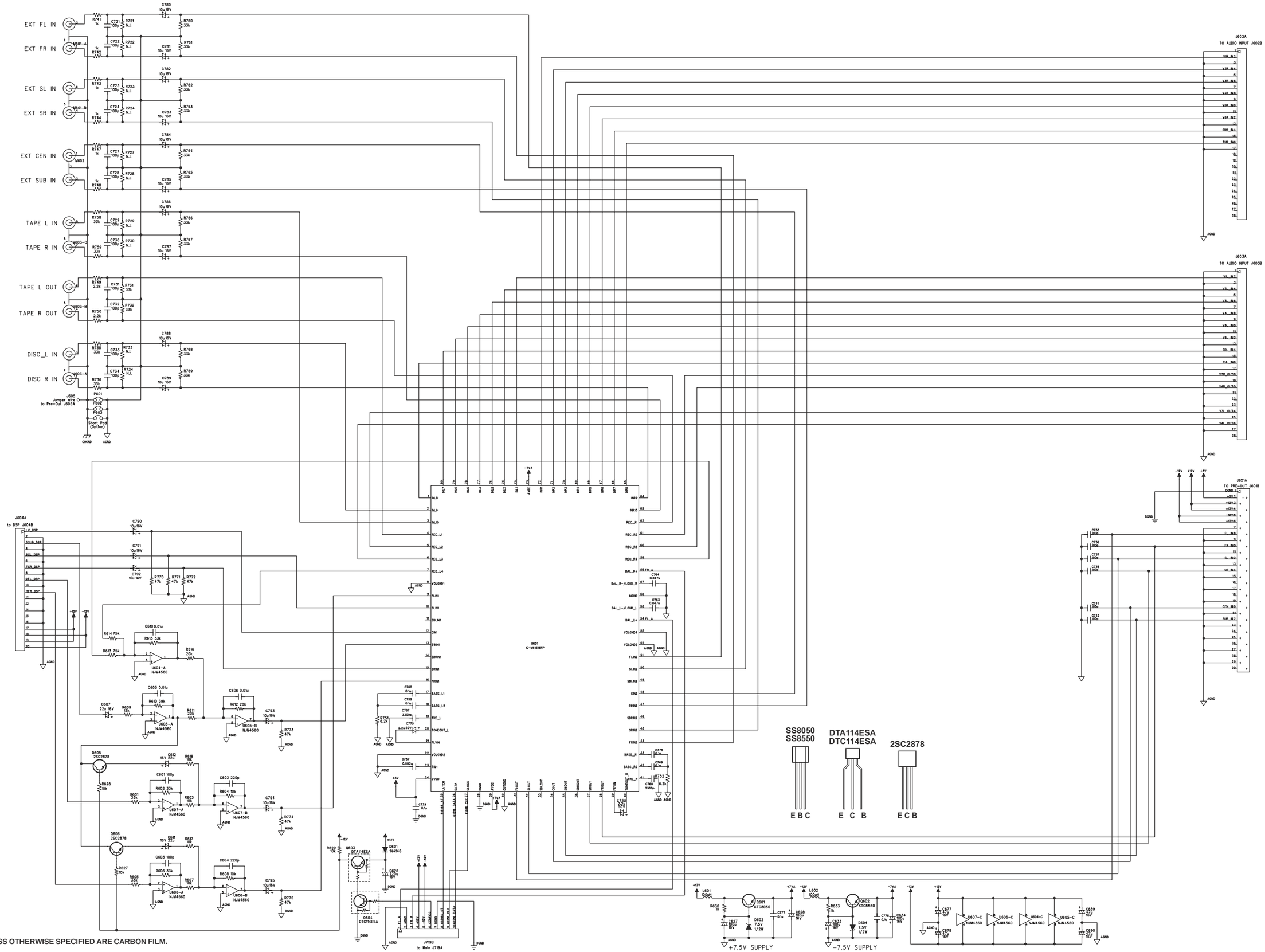
KEYBOARD



NOTE:

1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 5%.

MULTI-CH



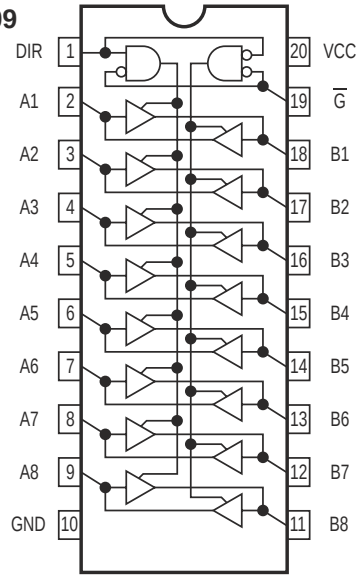
RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

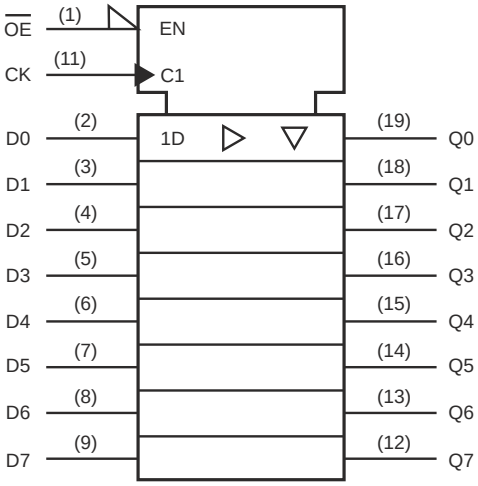
IC BLOCK DIAGRAM

74LVC245
DSP BOARD: U1002, U1003, U1014

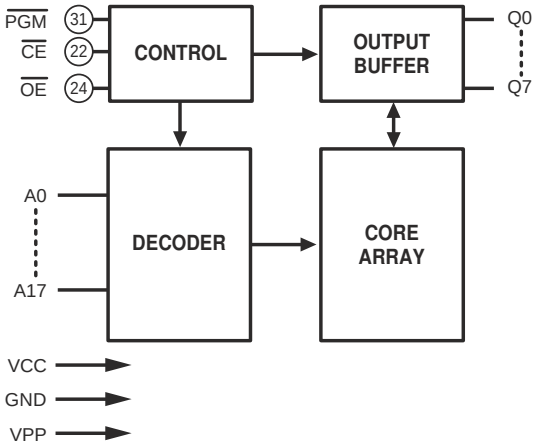
74LVQ574
DSP BOARD: U1008, U1009

74VHC245
KEYBOARD: U209

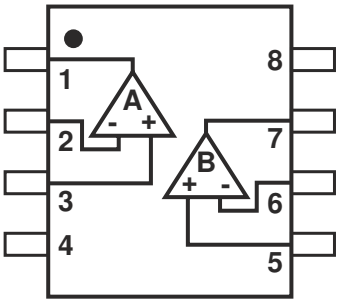




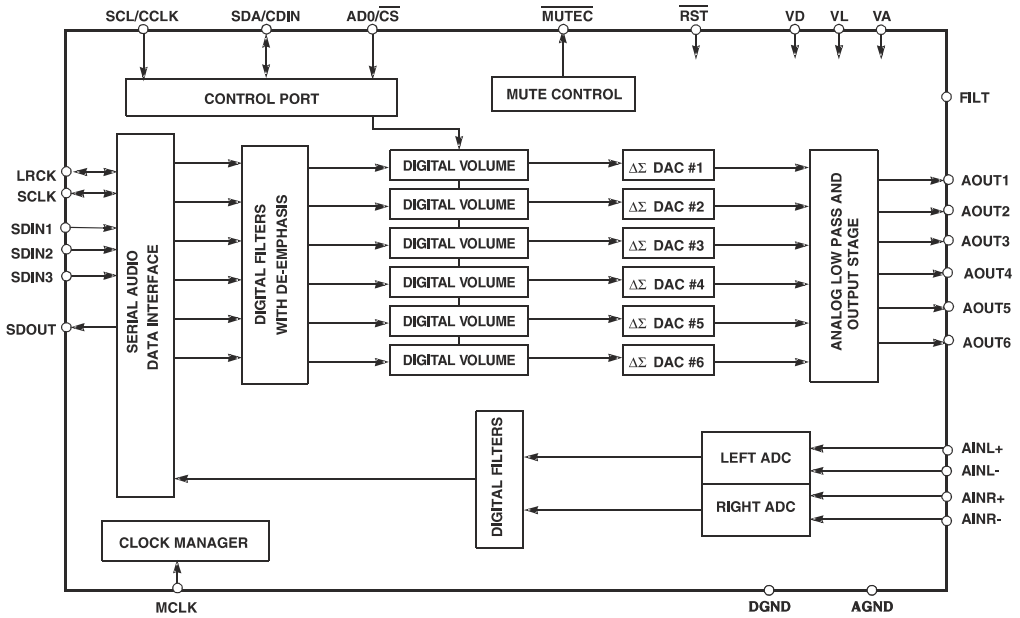
W27C020
DSP BOARD: U1007



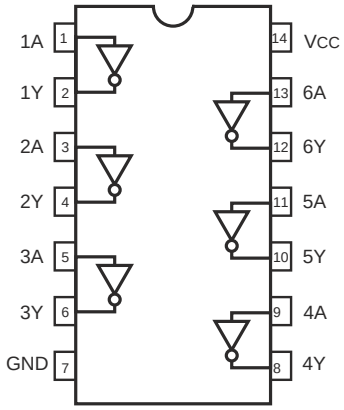
NJM4560
DSP BOARD: U1011~U1013, U1023 & U1025
MULTI-CHANNEL: U604~U607
PRE-OUT BOARD: U609~U612



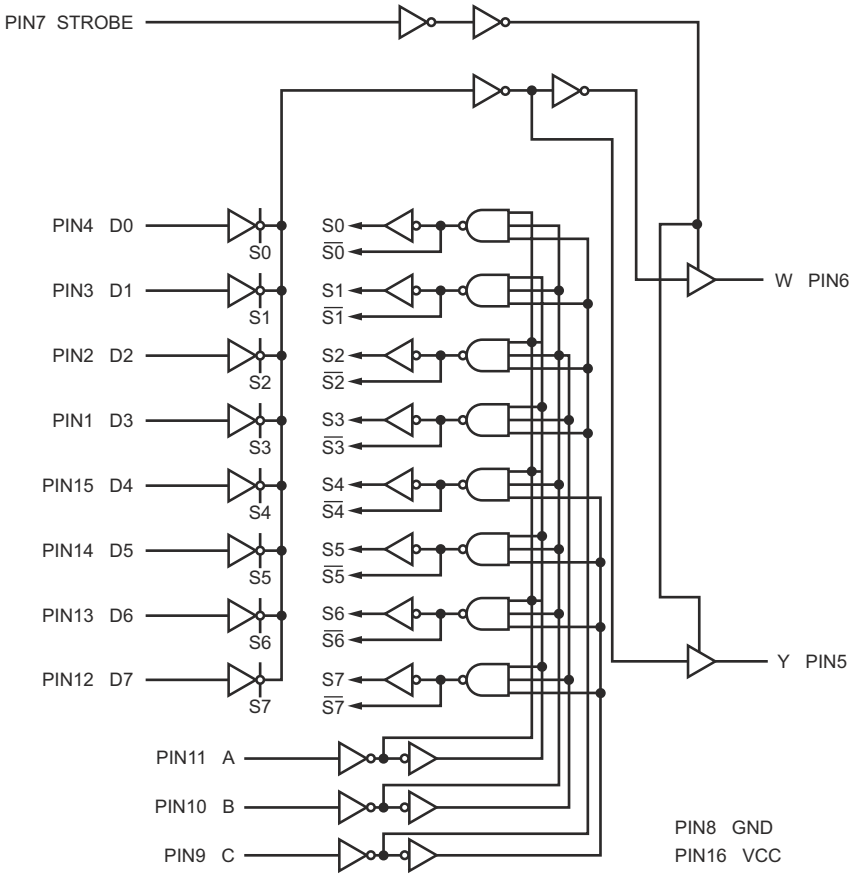
CS4228AKS
DSP BOARD: U1021



74HCU04
DIGITAL BOARD: U1201 & U1202



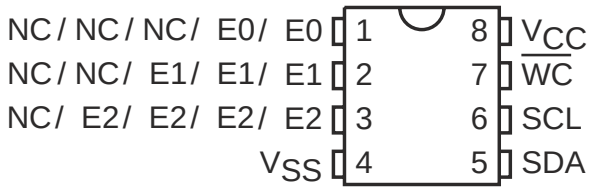
74HC251
DIGITAL BOARD: U1203



AT24C16
KEYBOARD: U210

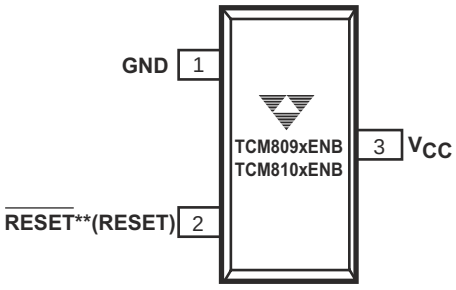
M24Cxx

16Kb/8Kb/4Kb/2Kb/1Kb



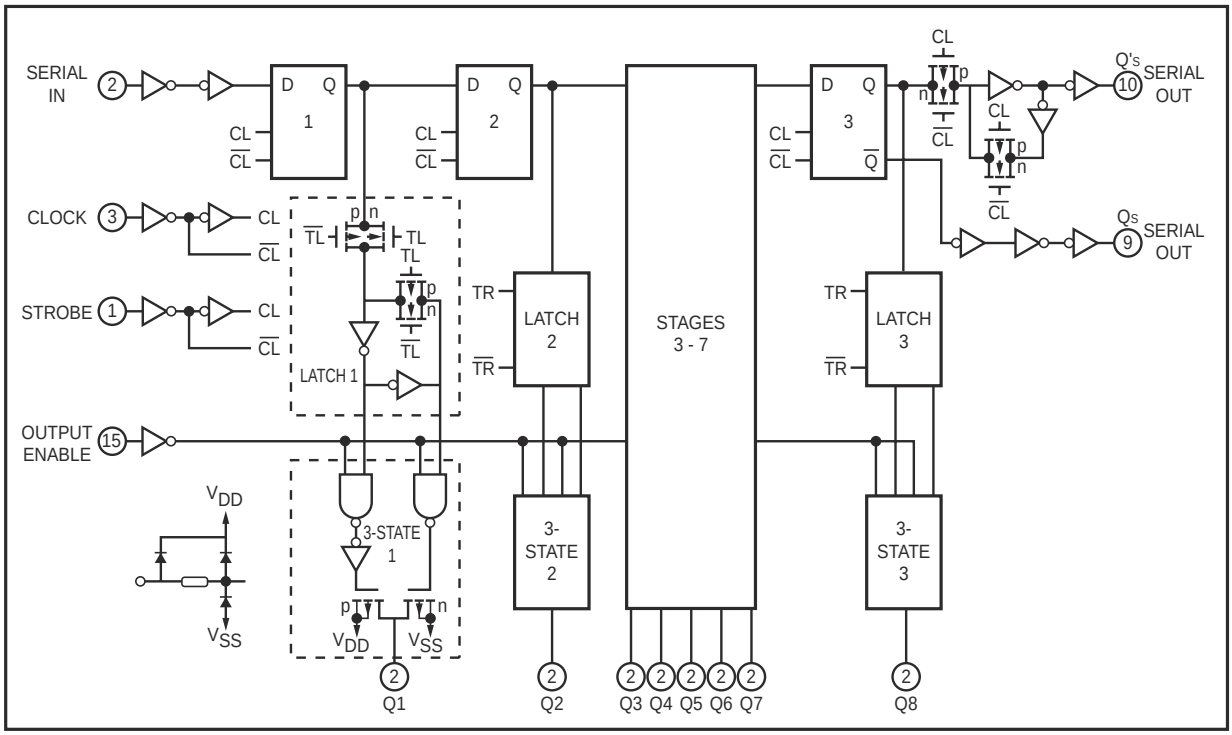
TCM810
KEYBOARD: U214

***3-Pin SOT-23B**

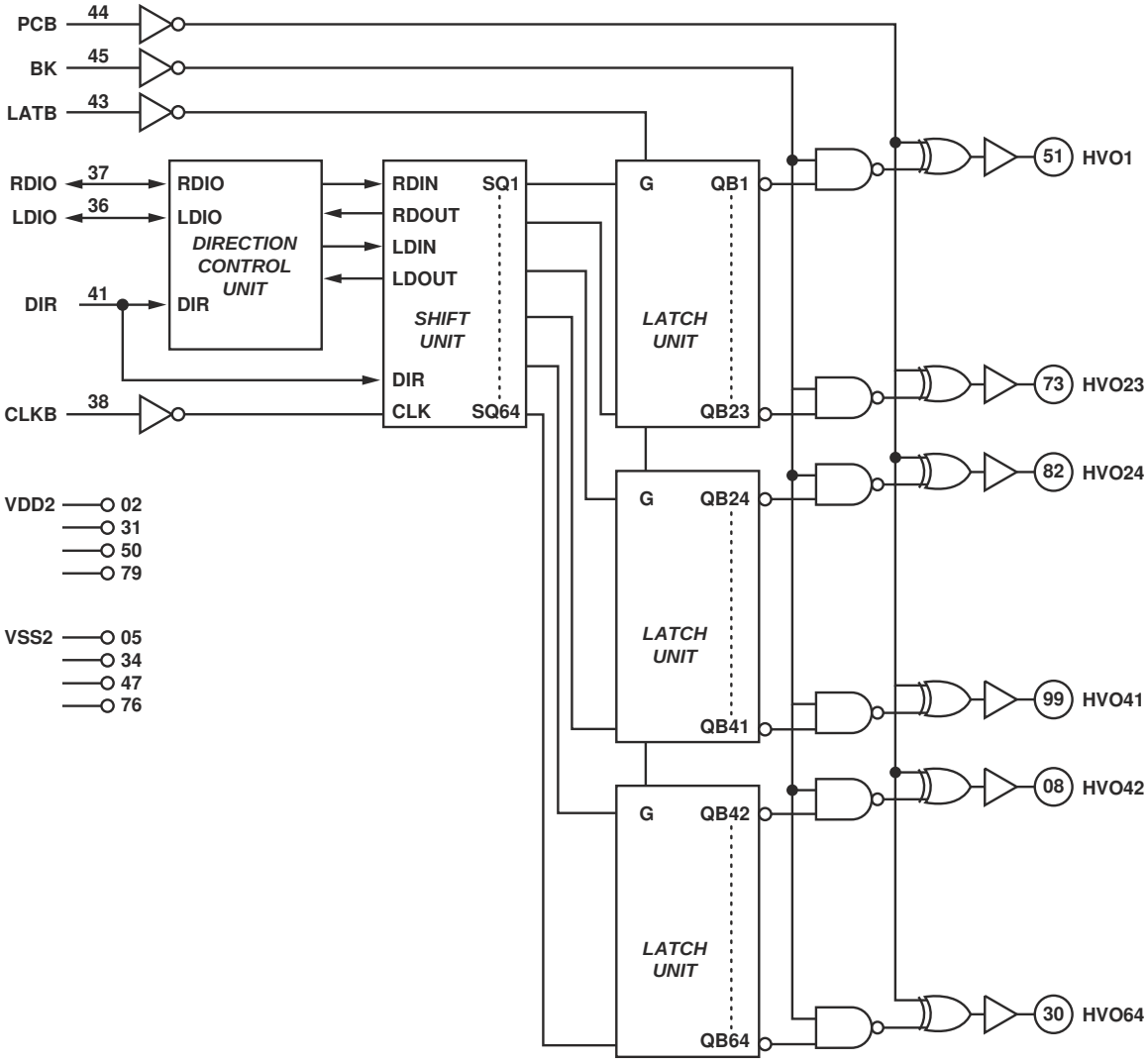


NOTE: *3-Pin SOT-23B is equivalent to JEDEC TO-236
** () is for TCM810

HCF4094B
KEYBOARD: U204~U207

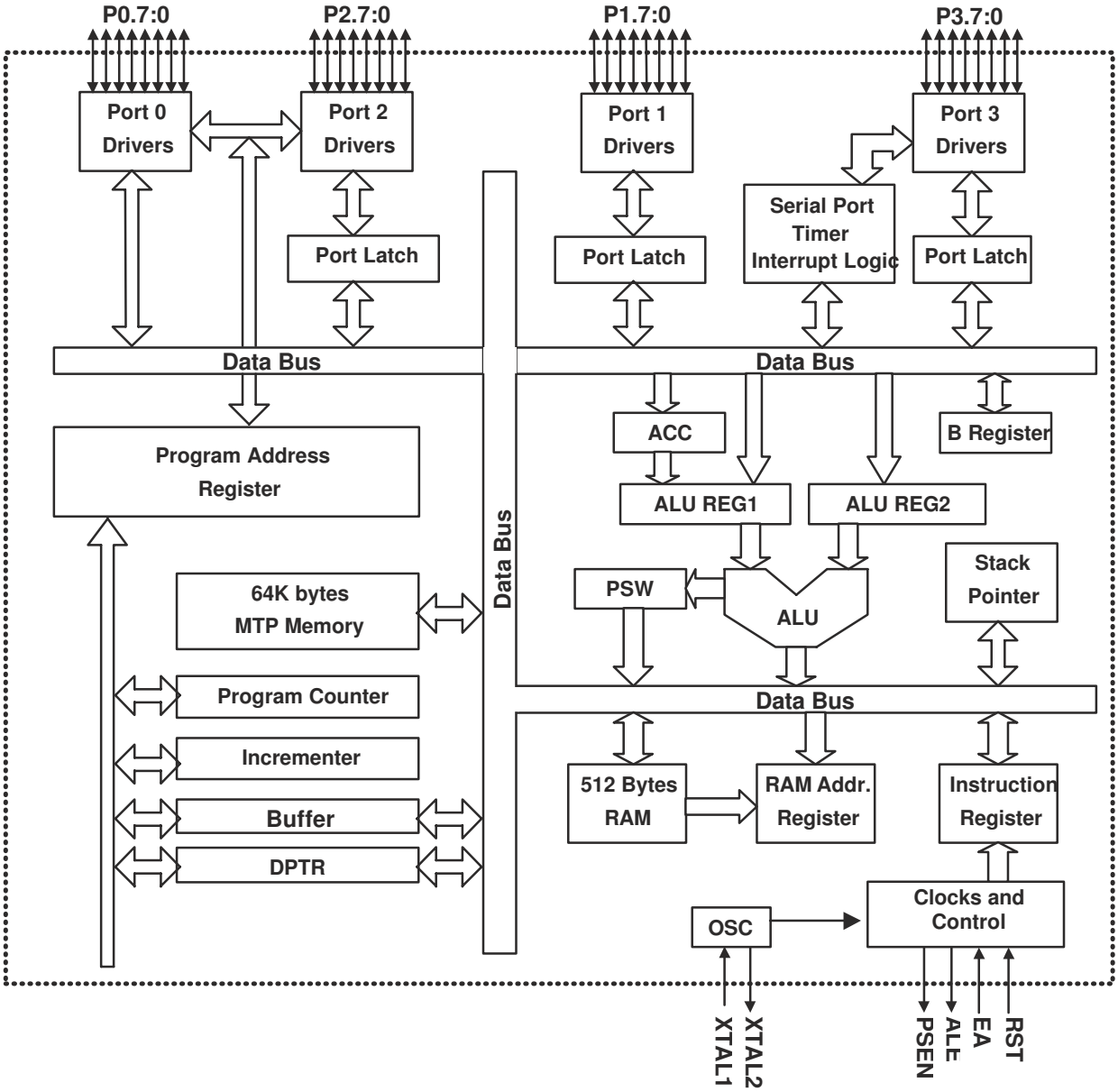


PT6306
KEYBOARD: U203



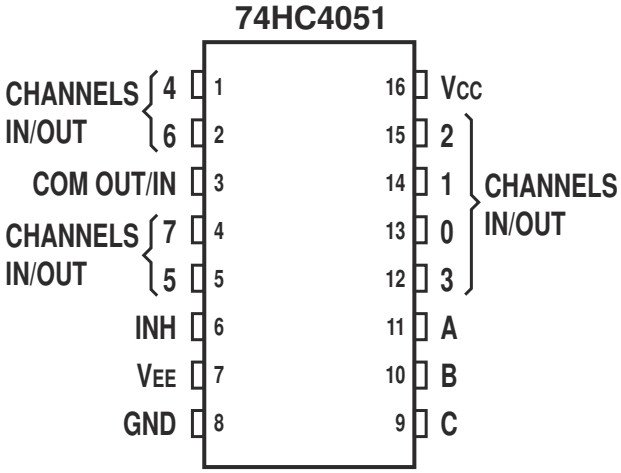
M6759

KEYBOARD: U201 & U202

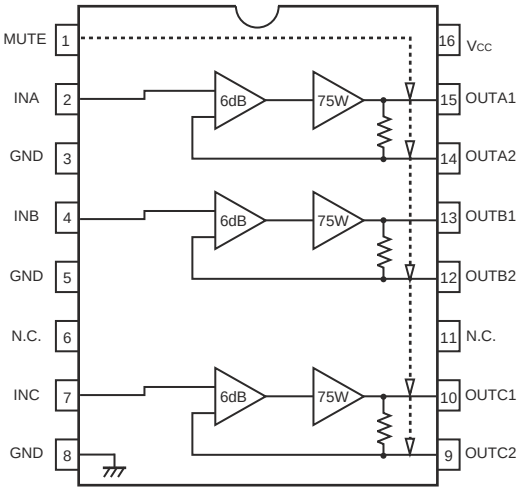


74HC4051

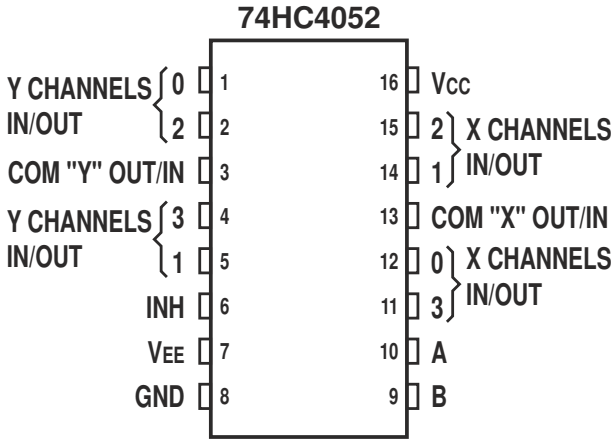
KEYBOARD: U208
S-VIDEO BOARD: U4102, U4103
COMPOSITE VIDEO: U4201



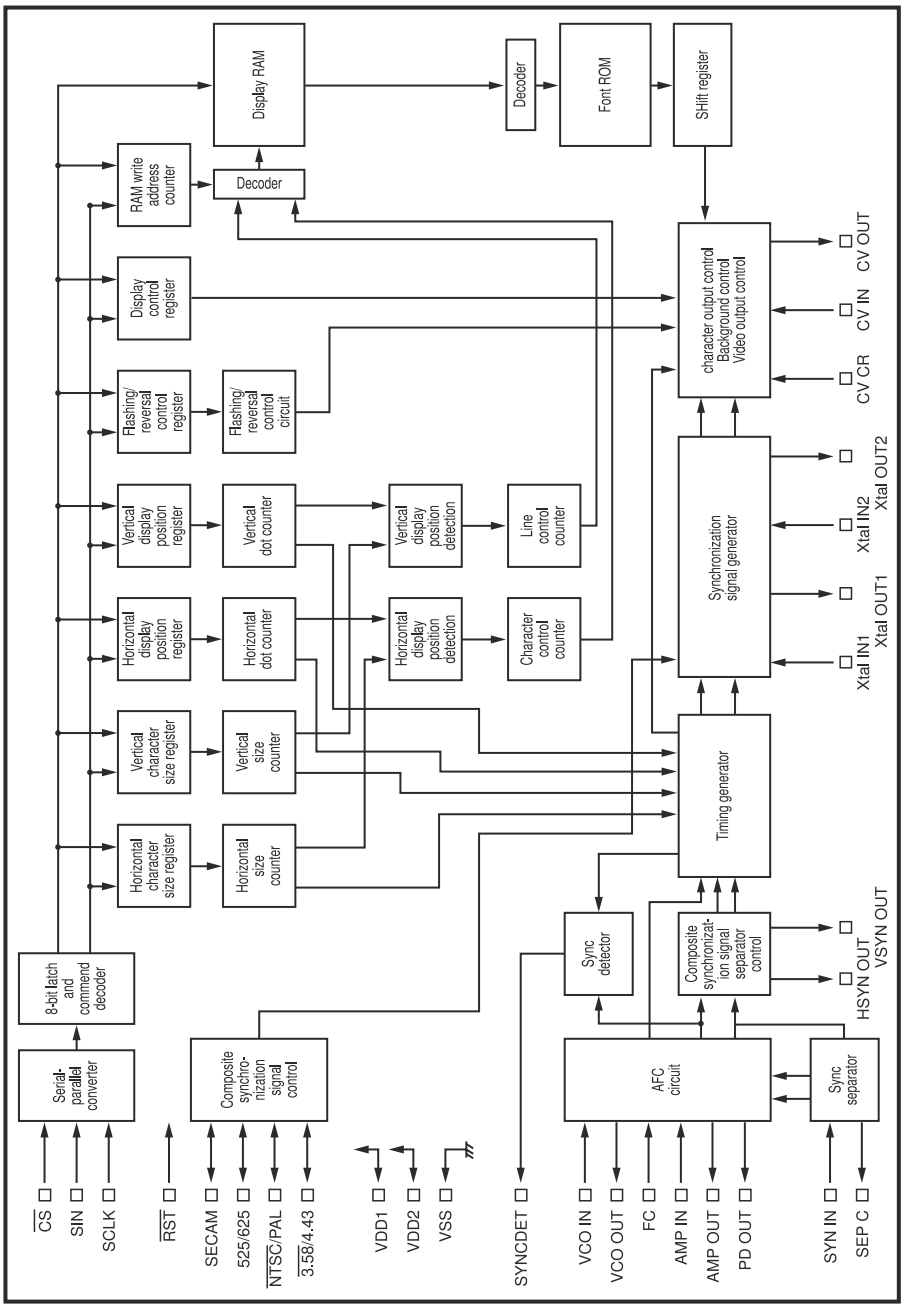
BA7660FS
COMPONENT VIDEO BOARD: U4301



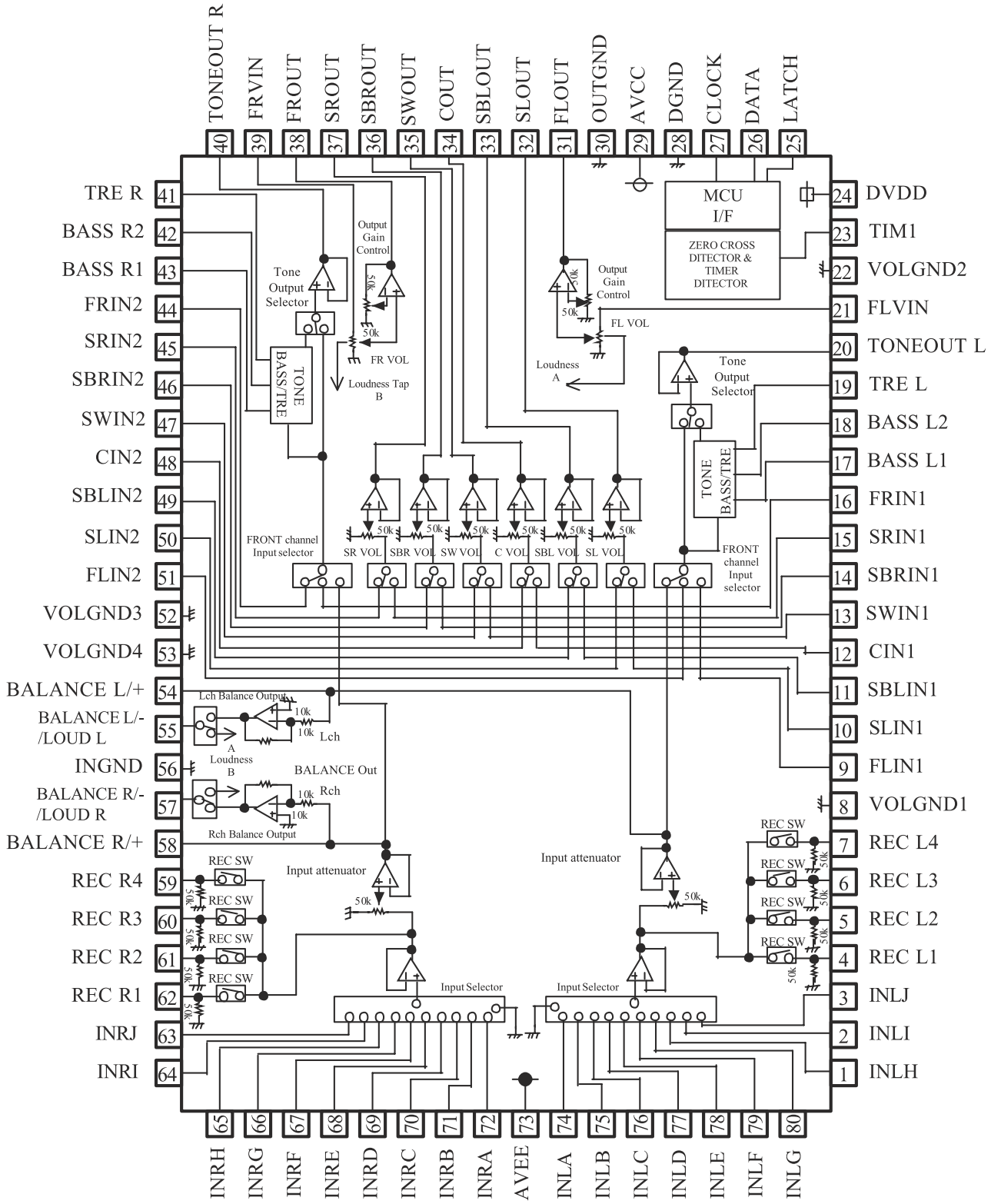
74HC4052
COMPONENT VIDEO BOARD: U4302 & U4303



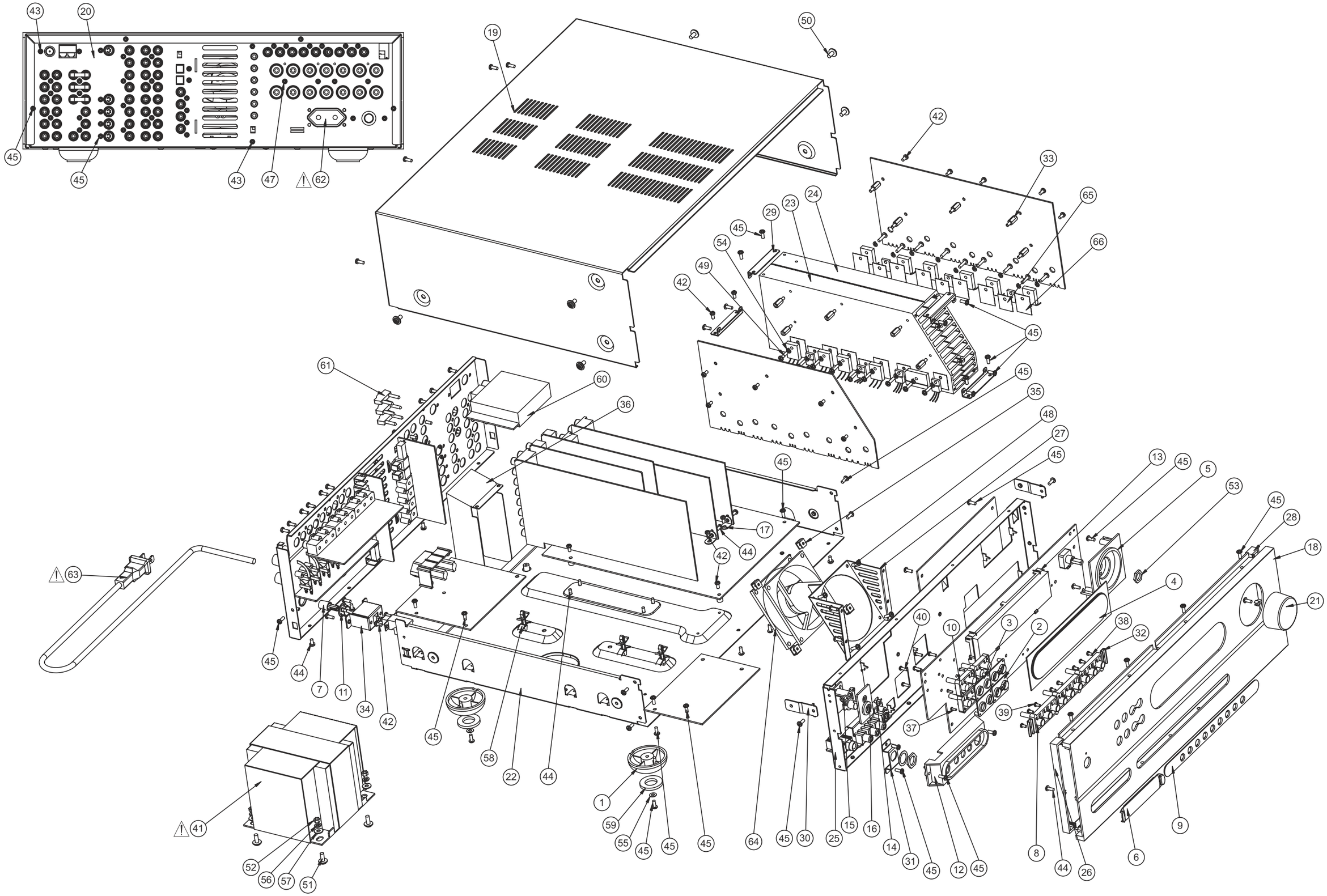
LC74763
S-VIDEO BOARD: U4101



M61516FP
MULTI-CHANNEL BOARD: U601



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Item	Part Number	Description	Qty
1	10-0163017-01-00	PLASTIC FOOT DOME SHAPE	4
2*AH,*C	10-0163045-72-00	LINKED GOGGLE BEZEL (GREY)	2
2*T	10-0163045-73-00	LINKED GOGGLE BEZEL (TITANIUM)	2
3*AH,*C	10-0163055-72-01	DUO GOGGLE BEZEL (GREY)	2
3*T	10-0163055-73-01	DUO GOGGLE BEZEL (TITANIUM)	2
4	10-0752001-00-10	WINDOW LENS	1
5*AH,*C	10-0752005-72-00	VOLUME BEZEL (GREY)	1
5*T	10-0752005-73-00	VOLUME BEZEL (PAINT TITANIUM)	1
6*AH,*C	10-0752007-72-00	VIDEO COVER (GREY)	1
6*T	10-0752007-73-00	VIDEO COVER (TITANIUM)	1
7	10-0752022-02-00	POWER BUTTON BLACK	1
8*AH,*C	10-0752032-72-01	INPUT BUTTON (GREY)	3
8*T	10-0752032-73-01	INPUT BUTTON (TITANIUM)	3
9*AH,*C	10-0752035-71-00	INPUT BUTTON LOZENGE	1
9*T	10-0752035-73-00	INPUT BUTTON LOZENGE (TITANIUM)	1
10*AH,*C	10-0752042-72-01	DUO BUTTON (GREY)	4
10*T	10-0752042-73-01	DUO BUTTON (TITANIUM)	4
11	10-0752045-01-00	POWER BUTTON BEZEL	1
12	10-0752065-01-00	VIDEO HOUSING	1
13	10-0752075-00-00	DISPLAY BRACKET	1
14	10-0772011-00-00	LED LENS ROUND	1
15*AH,*C	10-0772022-72-01	POWER BUTTON TACT ACTIVATE (GREY)	1
15*T	10-0772022-73-01	POWEER BUTTON TACT ACTIVATE (TITANIUM)	1
16*AH,*C	10-0772045-72-01	POWER BUTTON BEZEL (GREY)	1
16*T	10-0772045-73-01	POWER BUTTON BEZEL (TITANIUM)	1
17	11-0570075-80-01	L BRACKET	3
18*AH,*C	11-0743000-95-10	FASCIA (GREY)	1
18*C	11-0743000-94-10	FASCIA (TITANIUM)	1
19*AH,*C	11-0743003-95-12	TOP COVER (GREY)	1
19*T	11-0743003-97-12	TOP COVER (SILVER)	1
20*AH	11-0743006-94-10	REAR PANEL	1
20*C,*T	11-0743016-94-10	PEAR PANEL	1
21*AH,*C	11-0752002-72-00	VOLUME KNOB ASSY (GREY)	1
21*T	11-0752002-73-00	VOLUME KNOB ASSY (TITANIUM)	1
22	11-0752004-80-05	BOTTOM CHASSIS	1
23	11-0752008-94-02	EXTRUDED HTSK L BLACK	1
24	11-0752018-94-02	EXTRUDED HTSK R BLACK	1
25	11-0752025-80-04	SUBFASCIA	1
26*AH,*C	11-0752028-95-01	SIDE CAP L (GREY)	1
26*T	11-0752028-94-01	SIDE CAP L (TITANIUM)	1
27	11-0752035-80-02	FAN MOUNTING BRACKET	1
28*AH,*C	11-0752038-95-01	SIDE CAP R (GREY)	1
28*T	11-0752038-94-01	SIDE CAP R (TITANIUM)	1
29	11-0752045-80-00	HEATSINK MOUNTING BRACKET	4
30	11-0752055-80-00	SIDE MOUNTING BRACKET	2
31	11-0752065-80-00	PHONE BRACKET	1
32	11-0752075-80-00	DUMMY BRACKET	2
33	11-0762005-80-00	HEX SPACER AF5.5 H8+6	10
34	11-0772065-80-00	POWER BUTTON BRACKET	1
35	11-0743085-80-00	FAN SCREW BRACKET	4
36	12-0743001-70-00	FIBRE INSULATOR	1

Item	Part Number	Description	Qty
37	13-0200502-22-00	SELF TAP SCREW 2X5 TYPE ìBî NI PLT	8
38	13-0260500-02-00	SELF TAP SCREW 2.6 X 5 P/H TYPE ìAî NI PLT	2
39	13-0260600-02-00	SELF TAP SCREW 2.6 X 6 P/H TYPE ìAî NI PLT	6
40	13-0260803-02-00	SELF TAP SCREW 2.6 X 8 B/H TYPE ìAî NI PLT	16
41 ⚠	25-0210058-30-20	XFORMER PW EI-96 115V/230V T96-0313002-21	1
42	14-0300600-02-00	MACHINE SCREW M3 X 6 P/H NI PLT	23
43	14-0300600-04-00	MACHINE SCREW M3 X 6 P/H BLK	4
44	14-0300600-52-00	SELF TAP SCREW 3 X 6 P/H NI-PLT TYPE ìBî	12
45	14-0300800-53-00	SELF TAP SCREW 3 X 8 B/B ZINC PLATED	38
46	14-0300803-54-00	TAPTITE SCREW 3 X 8 B/H TYPE ìBî BLK PLT	44
47	14-0301000-54-00	TAPTITE SCREW 3 X 10 P/H TYPE ìBî BLK	6
48	14-0301003-04-00	MACHINE SCREW M3 X 10 B/H BLK	4
49	14-0301203-02-00	MACHINE SCREW M3 X 12 B/H NI-PLT	15
50	14-0400802-04-00	MACHINE SCREW M4 X 8 WASHER HEAD BLK	6
51	14-0501205-02-02	HEX HEAD SCREW M5 X 12 NI PLT	4
52	15-0500340-08-20	NUT M5X3.4 NI PLT	4
53	15-0900220-11-30	NUT ZINC PLATED M9.0 X 2.2mm 11p	1
54	16-0320560-09-20	SPRING WASHER I/D 3.2 X O/D 5.6 0.9mm	15
55	16-0350080-04-35	STEEL WASHER I/D 3.5 X O/D 8.0 0.4mm ZINC	4
56	16-0520080-12-30	SPRING WASHER I/D 5.2 X O/D 8 X 1.2 ZINC	4
57	16-0561200-10-20	STEEL WASHER I/D 5.6 X O/D 12 X 1 NI	8
58	17-0500960-00-01	PCB SUPPORTER H=9.6mm PCB HOLE 4mm	3
59	17-1402603-30-22	RUBBER FOOT I/D14 X O/D26 X 3	4
60*AH	29-4000004-00-38	AM/FM TUNER MODULE KST-MB114MA0-23	1
60*C,*T	29-4000002-00-38	AM/FM TUNER MODULE KST-MB114MA1-23	1
61	34-0061030-00-67	JUMPER PLUG PITCH 14mm	3
62*AH ⚠	34-0101001-00-70	AC OUTLET US POLARIZED 3512-MITIBKUC	1
62*C,*T ⚠	34-0100002-00-78	AC OUTLET EURO CEE 7 2.5A/250V A302D0060P	1
63*AH ⚠	36-2060010-00-97	POWER CORD 125V 10A POLARIZED PLUG UL/CSA	1
63*C,*T ⚠	36-2213110-07-97	POWER CORD 250V 2.5A EURO-PLUG VDE	1
64	37-2011225-00-63	FAN DC 80mm 12V 0.12A CHA8012CB W/CONNECTOR	1
65	38-1001500-00-65	SILICONE RUBBER TO-220 R.0	5
66	38-1030100-00-56	INSULATOR TO-3P MICA 1.5KV 22 X 27 X 0.125 SK023A	10

NOTE:

THE COMPONENTS IDENTIFIED BY ⚠ MARK ARE CRITICAL FOR RISK OF FIRE AND ELECTRICAL SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

<*AH > : USA, CANADIAN MODEL ONLY.

<*C > : EUROPEAN MODEL ONLY.

<*T > : EUROPEAN MODEL WITH TATANIUM COLOUR ONLY, ALL ELECTRICAL ARE SAME AS *C VERSION.

ELECTRICAL PARTS LIST (refer to schematic diagram for non critical component values)

Reference No.	Part No.	Description
POWER AMP MODULE	95-0907435-12-01	POWER AMPLIFIER MODULE
FRONT LEFT/RIGHT AMP BOARD		
PCB ASSEMBLY	80-0907430-40-00	FRONT LEFT/RIGHT AMP ASSEMBLY
CAPACITORS		
C501,C513,C525	22-3476052-00-28	CAP ELEC GR 4.7uF 50V 20%
C503,C515,C527	22-4110203-10-28	CAP MYLAR MCC-R 1000P 100V 10%
C505,C517,C529	22-3471022-00-28	CAP ELEC GR 470uF 16V 20%
C510,C521,C511,C522,C534,C535	22-3101082-00-28	CAP ELEC GR 100uF 100V 20%
C519,C531,C508	22-4115403-10-10	CAP MYLAR KT-G 150nF 100V 10%
C537-C539	22-4210402-00-31	CAP MPF 0.1uF 63V 5% DMF 5 SERIES
C551-C553	22-3100052-00-43	CAP ELEC SS 10uF 50V 20%
C565,C566	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
C577-C579	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
C580-C582	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
DIODES		
D501-D503,D505-D507,D509-D511, D521,D524-D528,D531-D536	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D530,D529	20-3222002-02-01	DIODE ZENER BZX55 22V 1/2W 5%
COILS		
L501-L503	24-1000001-00-28	AIR COIL 0.2uH 10% 1 X 9 X 13.5 TURNS
THERMISTOR		
M504	23-6110100-00-08	PTC 100 OHM PTH9MO4BH471TS2F333
THERMAL PROTECTOR		
M505 ⚠	39-0000007-00-15	THERMAL CUT OFF SWITCH 90C UP72
RELAY		
M506	32-3124051-03-40	RELAY POWER DC24V 5A/250V 2P1T
TRANSISTORS		
Q504,Q506,Q516,Q518,Q529,Q530	21-1011210-50-12	XTR PW PNP 1A/100V TO-126 2SD600KE
Q505,Q508,Q517,Q520,Q528,Q532	21-1011611-30-12	XTR PW PNP 1.5A/160V TO-220ML 2SA1606E
Q507,Q519,Q531	21-1011610-30-12	XTR PW NPN 1.5A/160V TO-220ML 2SC4159E
Q509,Q521,Q534	21-1152311-10-12	XTR PW PNP 15A/230V TO-3PB 2SA2031
Q510,Q522,Q533	21-1152310-10-12	XTR PW NPN 15A/230V TO-3PB 2SC5669
Q501-Q503,Q511,Q513-Q515,Q523, Q525-Q527,Q535	21-0000410-00-12	XTR SS NPN HFE160-320 130MHz 2SC2362KF
Q541	21-1036003-50-06	XTR PW 3A/60V TO-126 2SB772Q
Q542	21-0000390-70-14	XTR SS NPN HFE270-560 180MHz 2SC1740S
Q547	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA

Reference No.	Part No.	Description
Q561,Q564,Q567	21-0100410-00-12	XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA
RESISTORS		
R522,R545,R571	30-0102106-01-64	VR SEMI-FIX RES CF 1K OHM B 30%
R523,R547,R574	23-4228280-08-20	RES RN 0.22 OHM 5% 5W SIL 3 PIN
REGULATOR		
U501	27-3001201-17-14	I.C. VOLT REG 12V 1A TO-220 NJM7812
SURROUND LEFT/RIGHT/CENTER AMP BOARD		
PCB ASSEMBLY	80-0907430-18-00	SURROUND LEFT/RIGHT/CENTER AMP ASSEMBLY
CAPACITORS		
C554	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
C801,C802	22-3476052-00-43	CAP ELEC SS 4.7uF 50V 20%
C806,C805	22-4110203-10-28	CAP MYLAR MCC-R 1000P 100V 10%
C809,C810	22-3471022-00-28	CAP ELEC GR 470uF 16V 20%
C815,C816	22-4115403-10-10	CAP MYLAR KT-G 150nF 100V 10%
C819-C822	22-3101082-00-28	CAP ELEC GR 100uF 100V 20%
C824,C823	22-4210402-00-31	CAP MPF 0.1uF 63V 5% DMF 5 SERIES
C845,C846	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
C847,C848	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
DIODES		
D522,D523,D801-D806,D809,D821-D824	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
COILS		
L801,L802	24-1000001-00-28	AIR COIL 0.2uH 10% 1 X 9 X 13.5 TURNS
RELAYS		
M501,M502,M801	32-3124051-03-40	RELAY POWER DC24V 5A/250V 2P1T
TRANSISTORS		
Q543,Q544,Q829	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
Q801-Q806,Q545,Q546,Q821,Q822	21-0000410-00-12	XTR SS NPN HFE160-320 130MHz 2SC2362KF
Q807,Q808,Q815,Q816	21-1011611-30-12	XTR PW PNP 1.5A/160V TO-220ML 2SA1606E
Q809-Q812	21-1011210-50-12	XTR PW PNP 1A/100V TO-126 2SD600KE
Q813,Q814	21-1011610-30-12	XTR PW NPN 1.5A/160V TO-220ML 2SC4159E
Q818,Q817	21-1152310-10-12	XTR PW NPN 15A/230V TO-3PB 2SC5669
Q820,Q819	21-1152311-10-12	XTR PW PNP 15A/230V TO-3PB 2SA2031
Q844,Q512,Q841	21-0100410-00-12	XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA

Reference No.	Part No.	Description
RESISTORS		
R836,R835	30-0102106-01-64	VR SEMI-FIX RES CF 1K OHM B 30%
R843,R844	23-4228280-08-20	RES RN 0.22 OHM 5% 5W SIL 3 PIN
DSP BOARD		
PCB ASSEMBLY	80-0907430-65-00	DSP ASSEMBLY
CAPACITORS		
C1004,C1002	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
C1005	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
C1011	22-4210402-00-31	CAP MPF 0.1uF 63V 5% DMF 5 SERIES
C1030,C1031,C1040,C1041,C1051,C1050	22-3336052-00-43	CAP ELEC SS 3.3uF 50V 20%
C1060,C1073	22-3471012-00-28	CAP ELEC GR 470uF 10V 20%
C1137-C1140,C1092	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
C1096,C1098,C1100	22-4210502-00-31	CAP MPF 1uF 63V 5% DMF 5 SERIES
C1109-C1113	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
C1012,C1072,C1117	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
C1145-C1148	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
C1119,C1133,C1157	22-3102022-00-28	CAP ELEC GR 1000uF 16V 20%
C1103-C1108	45-0101055-55-57	CAP CER SMD 100pF 50V 10% X7R 0603
C1132	45-0102055-55-57	CAP CER SMD 1nF 50V 10% X7R 0603
C1010,C1007	45-0103055-55-57	CAP CER SMD 10nF 50V 10% X7R 0603
C1001,C1003,C1017-C1019,C1074-C1076,C1095,C1097,C1099,C1123-C1128,C1141,C1142	45-0104056-57-57	CAP CER SMD 0.1uF 50V 20% Y5V 0603
C1006,C1121	45-0221055-55-57	CAP CER SMD 220pF 50V 10% X7R 0603
C1032,C1036,C1042,C1046,C1052, C1056,C1130,C1131,C1134-C1136, C1144,C1143	45-0222055-55-57	CAP CER SMD 2.2nF 50V 10% X7R 0603
C1035,C1039,C1045,C1049,C1055, C1059,C1114	45-0472055-55-57	CAP CER SMD 4.7nF 50V 10% X7R 0603
C1034,C1038,C1044,C1048,C1054,C1058	45-0561055-55-57	CAP CER SMD 560pF 50v 10% X7R 0603
INDUTCORS		
L1001-L1007	24-0100127-00-28	IND CHOKE 10uH 10% EC36
TRANSISTORS		
Q1001-Q1003	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
RESISTORS		
R1007	44-0330920-51-00	RES SMD 33 OHM 5% 1/16W 0603
R1009	44-0200320-51-00	RES SMD 200K OHM 5% 1/16W 0603
R1013	44-0120120-51-00	RES SMD 1.2K OHM 5% 1/16W 0603
R1008,R1020,R1021,R1036,R1040, R1050,R1054,R1064,R1068,R1095, R1096,R1099,R1100,R1114,R1117-R1120,R1131-R1138,R1230	44-0100220-51-00	RES SMD 10K OHM 5% 1/16W 0603

Reference No.	Part No.	Description
R1037,R1041,R1042,R1044,R1047, R1049,R1051,R1055,R1056,R1058, R1061,R1065,R1069,R1070,R1072, R1075,R1077	44-0150120-51-00	RES SMD 1.5K OHM 5% 1/16W 0603
R1003-R1006,R1081	44-0330120-51-00	RES SMD 3.3K OHM 5% 1/16W 0603
R1082	44-0180120-51-00	RES SMD 1.8K OHM 5% 1/16W 0603
R1078,R1080,R1084	44-0220120-51-00	RES SMD 2.2K OHM 5% 1/16W 0603
R1090,R1091	44-0270120-51-00	RES SMD 2.7K OHM 5% 1/16W 0603
R1001,R1002,R1079,R1083,R1097, R1098,R1101,R1102	44-0470120-51-00	RES SMD 4.7K OHM 5% 1/16W 0603
R1115	44-0100020-51-00	RES SMD 100 OHM 5% 1/16W 0603
R1121-R1124	44-0150020-51-00	RES SMD 150 OHM 5% 1/16W 0603
R1143-R1148	44-0620020-51-00	RES SMD 620 OHM 5% 1/16W 0603
R1151	44-0100120-51-00	RES SMD 1K OHM 5% 1/16W 0603
J1001,R1010	44-0000020-51-00	RES SMD 0 OHM 5% 1/16W 0603
ICs		
U1001	27-9493260-04-70	I.C. DD DTS & MPEG DECODER PLCC CS49326
U1002,U1003,U1014	27-0324590-24-00	I.C. OCTAL BIDIRECTIONAL TRANS CEIVER SMD 74LVC245ATTR
U1004	27-0115790-25-00	I.C QUAD 2-INPUT SELECTOR SOIC 74HC157MIR
U1005	27-9841500-25-53	I.C. 96KHz DIGITAL AUDIO INTERFACE RECEIVER SMD CS8415A-CS
U1007	27-2325607-00-88	I.C. EEPROM 256 X 8 BYTE 70nS PDIL W27C02-70
U1008,U1009	27-0657490-18-00	I.C. OCTAL D-FLIP FLOPS 3-STAGE O/P SMD 74LVQ574M
U1011-U1013,U1023,U1025	27-9456000-18-14	I.C. NJM4560M SO 8 PIN DUAL OP AMP SMD NJM4560M
U1015,U1020	27-3031710-06-00	I.C. REG 1A TO-220(T) LM317T
U1021	27-9422800-24-53	I.C. 24BIT 96KHz SUR SOUND CODE SSOP CS4228AKS
OSCILLATOR		
X1001	28-5122200-04-19	SCILLATOR 12.288MHz 50ppm
AUDIO BOARD		
PCB ASSEMBLY	80-0907430-11-00	AUDIO ASSEMBLY
CAPACITORS		
C317-C319,C320-C332	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
RCA JACKS		
M303	34-4040420-00-60	RCA JACK 4 R-R/W-W PCB MOUNT
M301,M302	34-4060420-00-60	RCA JACK 6 R-R-R/W-W-W PCB MOUNT
RESISTORS		
J3101,J3102	44-0000020-51-00	RES SMD 0 OHM 5% 1/16W 0603

Reference No.	Part No.	Description
COMPONENT VIDEO BOARD		
PCB ASSEMBLY	80-0907430-42-00	COMPONENT VIDEO ASSEMBLY
CAPACITORS		
C4310-C4312,C4325	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
C4316,C4318,C4320	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
C4313-C4315	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
C4317,C4319,C4321	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
C4301-C4306	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
ICs		
U4301	27-5176600-18-23	I.C. VIDEO 3-CH75 OHM DRIVER BA7660FS
U4302,U4303	27-0140520-18-00	I.C. SINGLE DUAL TRIPLE M74HC4052MIR
RCA JACKS		
M431,M432,M434	34-4032020-00-60	RCA 3 G-BL-R PCB MOUNT
RESISTORS		
J4301-J4303	44-0000020-51-00	RES SMD 0 OHM 5% 1/16W 0603
DIGITAL BOARD		
PCB ASSEMBLY	80-0907430-47-00	DIGITAL ASSEMBLY
CAPACITORS		
C1213,C1214	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
C1222,C1223	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
RCA JACKS		
J1001-J1004	34-4010320-00-60	RCA JACK 1 BLACK PCB MOUNT
FIBRE OPTICAL		
J1005,J1006	26-6701380-01-16	OPTIC RECEIVING UNIT GP1FA550RZ
SLIDE SWITCH		
S1	35-4102209-00-67	SW SLIDE 2P2T RIGHT
ICs		
U1201,U1202	27-0804990-18-00	I.C. HEX INVERTER M74HCU04MIR
U1203	27-0125190-18-00	I.C. 8-CH MULTIPLEXER 74HC251M1R
KEYBOARD		
PCB ASSEMBLY	80-0907430-02-00	KEYBOARD ASSEMBLY
CAPACITORS		
C208-C211	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
C212	22-3102012-00-28	CAP ELEC GR 1000uF 10V 20%
C214	22-3107052-00-43	CAP ELEC SS 0.1uF 50V 20%
C255	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%

Reference No.	Part No.	Description
C242,C241	45-0102055-55-57	CAP CER SMD 1nF 50V 10% X7R 0603
C201,C202,C213,C215-C220,C222, C229,C256	45-0104056-57-57	CAP CER SMD 0.1uF 50V 20% Y5V 0603
C251-C254	45-0330055-55-57	CAP CER SMD 33pF 50V 10% X7R 0603
IR RECEIVER		
D201	26-0941380-00-00	IR RX 940nm 37.9KHz SHIELD
DIODES		
D212,D214-D218	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D220	20-3251902-00-01	DIODE ZENER BZX55 5.1V 1/2W 5%
ENCODER		
M201	35-6001219-00-08	ENCODER ROTATRY L=20mm VER W/O CLICK
TRANSISTORS		
Q201	21-0100100-00-46	XTR SS PNP HFE 100 200MHz TO-92 A1015Y
Q203-Q206	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
RESISTORS		
R201-R207,R213,R219,R223-R227, R229,R231,R232	44-0100220-51-00	RES SMD 10K OHM 5% 1/16W 0603
R217,R218	44-0150120-51-00	RES SMD 1.5K OHM 5% 1/16W 0603
R220	44-0470120-51-00	RES SMD 4.7K OHM 5% 1/16W 0603
R222	44-0220020-51-00	RES SMD 220 OHM 5% 1/16W 0603
R221,R230	44-0220120-51-00	RES SMD 2.2K OHM 5% 1/16W 0603
R233	44-0470220-51-00	RES SMD 47K OHM 5% 1/16W 0603
R216,R225,R234	44-0100120-51-00	RES SMD 1K OHM 5% 1/16W 0603
R238	44-0120220-51-00	RES SMD 12K OHM 5% 1/16W 0603
R241,R242	44-0100020-51-00	RES SMD 100 OHM 5% 1/16W 0603
R251,R252	44-0100520-51-00	RES SMD 10M OHM 5% 1/16W 0603
TACT SWITCHES		
S201-S218	35-1001117-00-67	SW TACT NO 1P1T 50mA/12V
ICs		
U201,U202	27-1086400-04-87	I.C. MCU 8 BIT 64KROM 512 BYTE SRAM PLCC M6759-A1F
U203	27-9630600-14-62	I.C. VFD DRIVER SMD QFP PT6306
U204-U207	27-0540940-18-00	I.C. 8-STAGE SHIFT-AND-STORE BUS REGISTER HCF4094BM1
U208	27-0140510-18-00	I.C. SINGLE 8 CH ANALOG MUX/DEMUX SMD M74HC4051MIR
U209	27-0324591-18-00	I.C. OCTAL BUS TRANSCEIVER 74VHC245M
U210	27-2300225-00-25	I.C. EEPROM 2K BYTE 250nS AT24C16
U214	27-9810000-28-36	I.C. MCU RESET MONITORS TCM810LENB713
VFD		
VD201	41-4340100-00-13	VFD 16-BT-93GNK

Reference No.	Part No.	Description
CRYSTALS		
X201,X202	28-5400200-06-33	CRYSTAL 40MHz 30ppm HC-49S
LED BOARD		
PCB ASSEMBLY	80-0907430-32-00	LED ASSEMBLY
LED		
D211	26-0012587-01-10	LED RED-GREEN CIRCULAR 5X807mm COMMON ANODE
TACT SWITCH		
S220	35-1001117-00-67	SW TACT NO 1P1T 50mA/12V VER H=7mm
MAIN BOARD		
PCB ASSEMBLY	80-0907430-00-00	MAIN ASSEMBLY
CAPACITORS		
C701,C704	22-3332042-30-35	CAP ELEC KM 3300uF 35V 20% 105C
C702,C719,C723	22-3101022-30-13	CAP ELEC KM 100uF 16V 20% 105C
C705,C706,C716,C725	22-3102032-30-28	CAP ELEC KM 1000uF 25V 20% 105C
C707	22-3222042-30-49	CAP ELEC KM 2200uF 35V 20% 105C
C710	22-3470052-00-43	CAP ELEC SS 47uF 50V 20% 85C
C711-C713	22-3102052-30-28	CAP ELEC KM 1000uF 50V 20% 105C
C715	22-4210502-00-31	CAP MPF 1uF 63V 5% DMF 5 SERIES
C724,C721	22-3222032-30-28	CAP ELEC KM 2200uF 25V 20% 105C
DIODES		
D701-D710	20-1001401-20-44	DIODE RECT 1A/400V DO41 1N4004
D711	20-3203102-00-01	DIODE ZENER BZX55 30V 1/2W 5%
D715	20-5004700-50-02	DIODE BRI 4A/70V RS402L
D716,D717	20-3951943-50-01	DIODE ZENER ZY5.1 2W 10%
D718	20-3939943-50-01	DIODE ZENER ZY3.9 2W 10%
TRANSISTORS		
Q701	21-1011210-50-12	XTR PW PNP 1A/100V TO-126 2SD600KE
REGULATORS		
U701,U704-U706	27-3000501-17-14	I.C. VOLT REG 5V 1A TO-220 NJM7805FA
U702,U707	27-3001201-17-14	I.C. VOLT REG 12V 1A TO-220 NJM7812
U703	27-3101201-13-14	I.C. VOLT REG TO-220F NJM7912
MULTI-CH BOARD		
PCB ASSEMBLY	80-0907430-64-00	MULTI-CHANNEL ASSEMBLY

Reference No.	Part No.	Description
CAPACITORS		
C607,C611,C612	22-3220022-00-43	CAP ELEC GS 22uF 16V 20% 85C
C626	22-3221022-00-43	CAP ELEC SS 220uF 16V 20% 85C
C627,C628,C633,C634	22-3101022-00-43	CAP ELEC SS 100uF 16V 20% 85C
C677,C678,C689,C690	22-3470022-00-43	CAP ELEC SS 47uF 16V 20% 85C
C755,C775	22-8226052-00-28	CAP ELEC 2.2uF 50V 20% NON-POLAR
C757	22-4282302-00-31	CAP MPF 0.082uF 63V 5% DMF 5 SERIES
C759,C760,C769,C770,C777-C779	22-4210402-00-31	CAP MPF 0.1uF 63V 5% DMF 5 SERIES
C763,C764	22-4247302-00-31	CAP MPF 0.047uF 63V 5% DMF 5 SERIES
C767,C768	22-4233202-00-31	CAP MPF 0.0033uF 63V 5% DMF 5 SERIES
C780-C795	22-3100022-00-43	CAP ELEC SS 10uF 16V 20% 85C
DIODES		
D601	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D602,D604	20-3275902-00-01	DIODE ZENER BZX55 7.5V 1/2W 5%
INDUCTORS		
L601,L602	24-0101108-00-28	IND CHOKE 100uH 10%
RCA JACK		
M601	34-4040420-00-60	RCA JACK 4 R-R/W-W PCB MOUNT
M602	34-4020320-00-60	RCA JACK 2 B/B PCB MOUNT
M603	34-4060420-00-60	RCA JACK 6 R-R-R/W-W-W PCB MOUNT
TRANSISTORS		
Q601	21-0000140-00-11	XTR SS NPN HFE 120 100MHz TO-92 SS8050C
Q602	21-0100131-00-11	XTR SS PNP HFE 170 1.5A TO-92 SS8550C
Q603	21-0100390-70-14	XTR SS PNP HFE 30 250MHz SPT DTA 114ESA
Q604	21-0000400-70-14	XTR SS NPN HFE30 250MHz SPT DTC114ESA
Q605,Q606	21-0000360-00-00	XTR SS NPN HFE200-700 30MHz 2SC2878A
ICs		
U601	27-7661516-14-01	I.C. SOUND PROCESSOR 7.1CH VOL+TONE SMD QFP M61516FP
U604-U607	27-9456000-18-14	I.C. NJM4560M SO 8 PIN DUAL OP NJM4560M
PRE-OUT BOARD		
PCB ASSEMBLY	80-0907430-63-00	PRE-OUT ASSEMBLY
CAPACITORS		
C637,C642,C647,C652,C672	22-3100022-00-43	CAP ELEC SS 10uF 16V 20% 85C

Reference No.		Part No.	Description
C640,C645,C650,C655,C675		22-3220022-00-43	CAP ELEC GS 22uF 16V 20% 85C
C667,C670		22-8226052-00-28	CAP ELEC 2.2uF 50V 20% NON-POLAR
C684,C685,C687,C688		22-3331022-00-28	CAP ELEC GR 330uF 16V 20% 85C
C679,C680,C691,C692		22-3470022-00-43	CAP ELEC SS 47uF 16V 20% 85C
DIODES			
D605,D606,D608,D609,D611-D614		20-0000000-00-13	DIODE SW 4NS DO35 1N4148
INDUCTORS			
L602-L606,L609,L610		24-0100127-00-28	IND CHOKE 10uH 10%
RCA JACKS			
M607		34-4040500-00-60	RCA JACK 4 R-W/R-W PCB MOUNT
M608,M612		34-4020300-00-60	RCA JACK 2 B/B PCB MOUNT
M609		34-4020400-00-60	RCA JACK 2 R-W PCB MOUNT
TRANSISTORS			
Q608-Q611,Q614,Q615,Q617		21-0000350-70-00	XTR SS NPN HFE200-700 30MHz SPT RN1241A
Q616,Q618,Q622,Q624		21-0100390-70-14	XTR SS PNP HFE 30 250MHz SPT DTA 114ESA
RESISTORS			
R635,R642,R647,R654,R678		23-1220102-00-00	RES MF 2.2K OHM 1% 1/6W
R636,R643,R648,R655,R672,R679		23-1330002-00-00	RES MF 330 OHM 1% 1/6W
ICs			
U609,U610,U612		27-9456000-18-14	I.C. NJM4560M SO 8 PIN DUAL OP AMP NJM4560M
PSU BOARD			
PSU ASSEMBLY*AH		80-0907430-01-00	PSU ASSEMBLY
PSU ASSEMBLY*C		80-0907430-01-01	PSU ASSEMBLY
CAPACITORS			
C752		22-3476052-00-00	CAP ELEC GS 4.7uF 50V 20% 85C
C753		22-4210202-00-31	CAP MPF 0.001uF 63V 5% DMF 5 SERIES
C754,C763	⚠	22-1103470-35-45	CAP CER ECKDRS 10nF 400VAC +80/-20%
C755		22-3472032-00-28	CAP ELEC GR 4700uF 25V 20% 85C
DIODES			
D751		20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D752-D756		20-1001401-20-44	DIODE RECT 1A/400V DO41 1N4004
FUSES			
F751*AH	⚠	33-0101001-00-48	FUSE 7A 250V TIME-LAG5 X 20mm SIC UL/CSA
F751*C	⚠	33-0141002-00-48	FUSE 4A 250V TIME-LAG 5 X 20mm VDE/UL TSD

Reference No.		Part No.	Description
F752*AH	⚠	33-0111006-00-48	FUSE 1.6A 250V TIME LAG LBC 5x20mm TSD UL/CSA/VDE/SEMKO
F752*C	⚠	33-0151006-00-48	FUSE 800mA 250V TIME LAG LBC 5x20mm TSD UL/CSA/VDE/SEMKO
FH751-FH752	⚠	33-1000000-00-88	FUSE CLIP 0.05mm FC-53-11
RELAY			
M751*AH	⚠	32-3112210-00-40	RELAY POWER DC12V 20A 220VAC 1P1T PCB UL/CUL
M751*C	⚠	32-1012100-01-97	RELAY MINIATURE 12VDC 10A 1P1T VDE
TRANSISTOR			
Q751		21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
RESISTORS			
R751	⚠	23-5228330-00-00	RES FUSIBLE 0.22 OHM 10% 1/2W
R754*AH	⚠	23-8395232-00-25	COND PATH RESISTOR 3.9M OHM 1/2W 5%
POWER SWITCH			
S701	⚠	35-0101109-00-67	SW POWER TV-8 10A 250VAC
STANDBY TRANSFORMER			
T751	⚠	25-0040020-31-18	XFORMER PW EI-35 100V/220V T05382A
SECONDARY BOARD			
PCB ASEMBLY		80-0907430-27-00	SECONDARY ASSEMBLY
CAPACITORS			
C788,C784,C787,C783,C781,C782,C785		22-4210402-00-31	CAP MPF 0.1uF 63V 5% DMF 5 SERIES
C790,C791		22-3822062-00-41	CAP ELEC LP 8200uF 63V 20% 85C
BRIDGE RECTIFIER			
D781		20-5125401-50-02	BRIDGE RECTIFIER 25A 400V MP254W BR-25W
FUSES			
F781-F782*AH	⚠	33-0191001-00-88	FUSE 10A 250VAC TIME-LAG 5X20mm UL/CSA 5T
F781-F782*C	⚠	33-0161006-00-88	FUSE 10A/250VAC TIME-LAG 5 X 20mm UL/VDE 5D
FH781-FH782	⚠	33-1000000-00-88	FUSE CLIP 0.05mm FC-53-11
RESISTORS			
R781-R783	⚠	23-5228330-00-00	RES FUSIBLE 0.22 OHM 10% 1/2W
R784,R785		23-2228232-00-00	RES MO 0.22 OHM 5% 1/2W
SPEAKER BOARD			
PCB ASSEMBLY		80-0907430-67-00	SPEAKER A ASSEMBLY

Reference No.	Part No.	Description
SPEAKER TERMINAL		
M8101	34-3000021-00-80	SPEAKER TERMINAL 6P BINDING
M5101,M5102	34-3000022-00-80	SPEAKER TERMINAL 4P BINDING
S-VIDEO BOARD		
PCB ASSEMBLY	80-0907430-26-00	S-VIDEO ASSEMBLY
CAPACITORS		
C4101-C4107,C4115,C4158	22-3101022-00-43	CAP ELEC SS 100uF 16V 20% 85C
C4108,C4116,C4156,C4163,C4164, C4168,C4169	22-3471012-00-28	CAP ELEC GR 470uF 10V 20% 85C
C4133,C4137,C4141	22-3106052-00-43	CAP ELEC SS 1uF 50V 20% 85C
C4138	22-7200210-00-09	CAP TRIMMER 20pF 20%
C4144	22-3477052-00-43	CAP ELEC SS 0.47uF 50 20% 85C
C4146,C4136	22-4247402-00-31	CAP MPF 0.47uF 63V 5% DMF 5 SERIES
C4134,C4145,C4149	22-3101012-00-43	CAP ELEC SS 100uF 10V 20% 85C
C4150	22-3470022-00-43	CAP ELEC SS 47uF 16V 20% 85C
C4151	22-3100022-00-43	CAP ELEC SS 10uF 16V 20% 85C
C4153,C4157	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20% 85C
C4162,C4167,C4171,C4173	22-3221012-00-43	CAP ELEC SS 220uF 10V 20% 85C
C4175	22-4247302-00-31	CAP MPF 0.047uF 63V 5% DMF 5 SERIES
DIODES		
D4101-D4109	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
INDUCTORS		
L4101	24-0569107-00-28	IND CHOKE 5.6uH 10%
L4102	24-0220107-00-28	IND CHOKE 22uH 10%
DIN JACKS		
M411-M414,M418	34-4110300-00-60	DIN JACK 1 BLACK PCB MOUNT
TRANSISTOR		
Q4101-Q4104,Q4107,Q4108,Q4116-Q4119,Q4134,Q4135	21-0100370-70-14	XTR SS PNP HFE 270-560 140MHz 2SA933AS
Q4105,Q4106,Q4113,Q4114,Q4121, Q4124,Q4125,Q4128,Q4130,Q4133	21-0000360-00-00	XTR SS NPN HFE200-700 30MHz 2SC2878A
Q4109,Q4120,Q4123	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
Q4115,Q4126,Q4127	21-0000390-70-14	XTR SS NPN HFE270-560 180MHz 2SC1740S
Q4122,Q4131	21-0000120-70-14	XTR SS NPN HFE 68 30MHz SPT DTC144ES
Q4132	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
ICs		
U4101	27-5574763-21-02	I.C. OSD DIP30SD LC74763-9012
U4102,U4103	27-0140510-18-00	I.C. SINGLE 8 CH ANALOG MUX/DEMUX SMD M74HC4051MIR

Reference No.	Part No.	Description
CRYSTAL		
X4101	28-5143200-06-19	CRYSTAL 14.318MHz 30ppm
X4102	28-5177200-06-19	CRYSTAL 17.73447MHz 30ppm
TRIGGER BOARD		
PCB ASSEMBLY	80-0907430-68-00	TRIGGER ASSEMBLY
DIODES		
D351-D353	20-3251902-00-01	DIODE ZENER BZX55 5.1V 1/2W 5%
D354,D355,D357,D359-D361	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
PHONE JACKS		
M351-M355,M357	34-4310300-00-60	PHONE JACK 1 BLACK PCB MOUNT
TRANSISTOR		
Q351	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
RESISTORS		
R358,R359	23-2121250-00-00	RES MO 120 OHM 5% 2W
SLIDE SWITCH		
S351	35-4102209-00-67	SW SLIDE 2P2T RIGHT L=9
REGULATORS		
U352	27-3001201-07-85	I.C. VOLT REG 12V 0.1A TO-92 LM78L12
U353	27-3001201-17-14	I.C. VOLT REG 12V 1A TO-220 NJM7812
VIDEO-6 BOARD		
PCB ASSEMBLY	80-0907430-45-00	VIDEO-6 BOARD
CAPACITORS		
C4401-C4403	22-3101022-00-43	CAP ELEC SS 100uF 16V 20% 85C
JACKS		
M4401	34-4010000-01-60	RCA JACK 1 YELLOW PCB MOUNT
M4404	34-4010100-01-60	RCA JACK 1 RED PCB MOUT
M4403	34-4010200-01-60	RCA 1 WHITE PCB MOUNT
M4402	34-4110300-00-60	DIN JACK 1 BLACK PCB MOUNT
J4401	34-4510302-01-80	PHONE JACK D6.3 1 PCB MOUNT
COMPOSITE VIDEO BOARD		
PCB ASSEMBLY	80-0907430-66-00	COMPOSITE VIDEO ASSEMBLY
CAPACITORS		
C4201-C4203,C4205,C4207	22-3101022-00-43	CAP ELEC SS 100uF 16V 20% 85C
C4204,C4206,C4208,C4222,C4223	22-3471012-00-28	CAP ELEC GR 470uF 10V 20% 85C

Reference No.	Part No.	Description
C4219,C4220	22-1102150-09-41	CAP CER KT 1000pF 50V 10%
C4221,C4224	22-3221012-00-43	CAP ELEC SS 220uF 10V 20% 85C
DIDOES		
D4201,D4202	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
J4201,J4202	44-0000027-11-00	RES SMD 0 OHM 5% 1/10W 0805
RCA JACKS		
M421,M422	34-4040020-00-60	RCA JACK 4 Y-Y/Y-Y PCB MOUNT
TRANSISTORS		
Q4201,Q4205	21-0000360-00-00	XTR SS NPN HFE200-700 30MHz 2SC2878A
Q4202,Q4206	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
Q4203,Q4204,Q4207,Q4209,Q4210	21-0100370-70-14	XTR SS PNP HFE 270-560 140MHz 2SA933AS
ICs		
U4201	27-0140510-18-00	I.C. SINGLE 8 CH ANALOG MUX/DEMUX SMD M74HC4051MIR

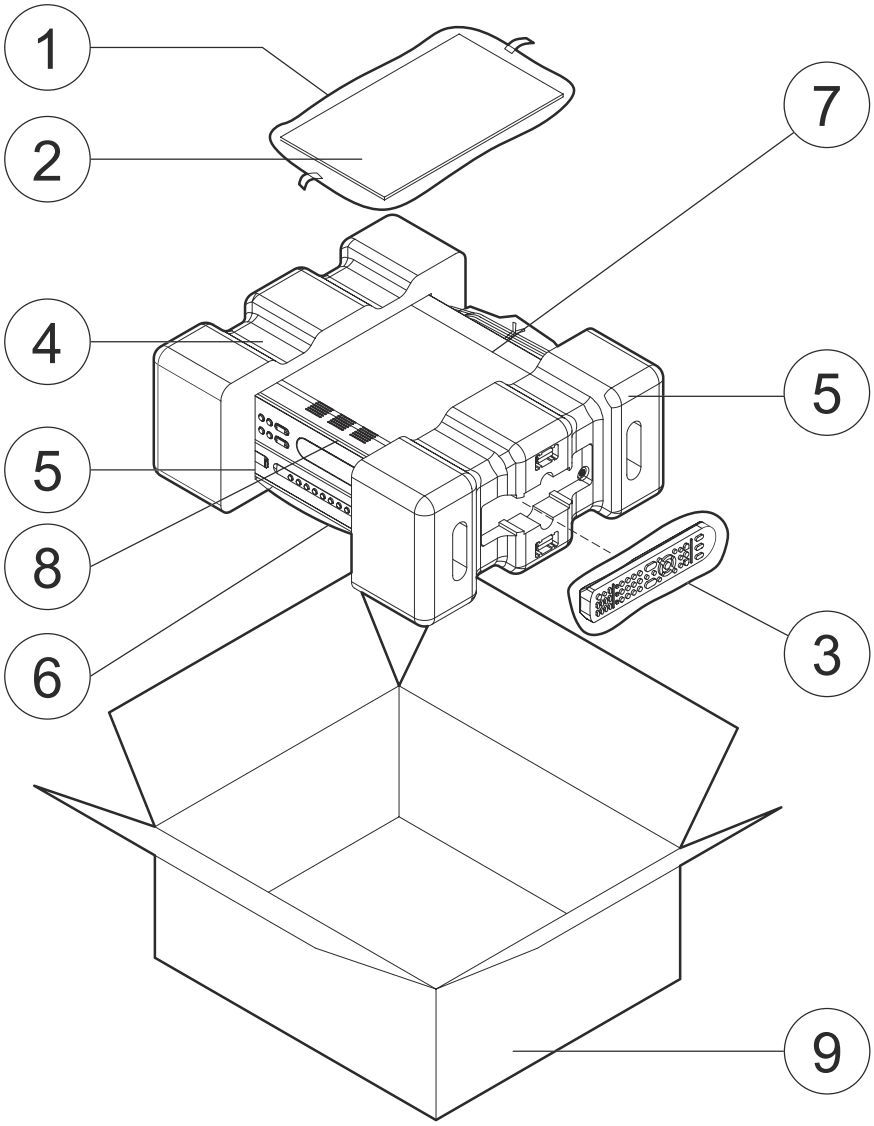
NOTE: THE COMPONENTS IDENTIFIED BY ⚠ MARK ARE CRITICAL FOR RISK OF FIRE AND ELECTRICAL SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

<*AH > : USA, CANADIAN MODEL ONLY.

<*C > : EUROPEAN MODEL ONLY.

RESISTORS: MO-METAL OXIDE, RN-CERAMIC CASE, MF-METAL FILM.

PACKING DIAGRAM & PARTS LIST



Item	Part No.	Description	Qty.
1	64-0200001-01-00	POLYBAG MANUAL	1
2	31-6407520-00-98	FM WIRE ANTENNA	1
	31-6472801-00-28	AM LOOP ANTENNA W/STAND	1
	34-0081004-00-67	300 TO 75 OHM ADAPTER	1
	61-0743004-42-99	OWNER'S MANUAL T743 GB/F/D/NL	1
	61-0743004-43-99	OWNER'S MANUAL T743 E/I/P/S	1
	37-0020200-00-79	BATTERY AAA 1.5V ER03X	4
	65-0752000-00-98	WARRANTY CARD	1
3	83-0752000-01-04	REMOTE CONTROLLER NAD HTR-2	1
4	63-0743001-00-00	POLYFOAM ENDCAP LEFT T743	1
5	63-0743002-00-01	POLYFOAM ENDCAP RIGHT T743	1
6	64-0700001-00-00	POLYBAG MAIN UNIT	1
7	65-0752070-00-99	A3 WHITE PAPER	1
8	64-0743000-00-00	EPE PROTECTIVE COVER	1
9	67-0743000-10-99	MASTER CARTON BOX T743	1

VERSION HISTORY

SERIAL NO	SOFETWARE VER.	PCB ASSEMBLY VERSION
R3XT74300186-R3XT74300200	V1.26	ONLY POWER AMP BOARD ISSUE 3, ALL OTHER ISSUE 4.
R3XT74300001-R3XT74300185, R3XT74300201-R3XT74300500	V1.27	ONLY POWER AMP BOARD ISSUE 3, ALL OTHER ISSUE 4.
R3XT74301035-R3XT74301234	V1.27	ALL ARE ISSUE 3
R3XT74300501-R3XT74301034, R3XT74301235-R3XT74301500	V1.27	ONLY POWER AMP BOARD ISSUE 3, ALL OTHER ISSUE 4.
R3YT74301501-R3YT74303000	V1.27	ONLY POWER AMP BOARD ISSUE 3, ALL OTHER ISSUE 4.
R3YT74303001-R3YT74305400	V1.27	ALL ARE ISSUE 4
R3ZT74305401-R3ZT74306400	V1.27	ALL ARE ISSUE 4
R41T74306401-R41T74306600	V1.27	ALL ARE ISSUE 4
R44T74306601-R44T74307600	V1.27	ALL ARE ISSUE 4

REMARK: PCB Number 55-0743XXX-XX-**00** = ISSUE 3,
PCB Number 55-0743XXX-XX-**01** = ISSUE 4.

SERVICE MANUAL

T 743

A/V Receiver

NAD ELECTRONICS LTD
LONDON